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Title: MSGP Stormwater Pollution Prevention Plan TA-60 Roads and Grounds Facility, Sigma Mesa Staging Areas, and Asphalt Batch Plant

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MSGP Stormwater Pollution Prevention Plan
TA-60 Roads and Grounds Facility, Sigma Mesa Staging Areas,
and Asphalt Batch Plant
Triad National Security, LLC
Los Alamos National Laboratory

January 2023

Revision 5

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TA-60 Roads and Grounds Facility, Sigma Mesa Staging Areas, and Asphalt Batch Plant STORMWATER POLLUTION PREVENTION PLAN

PREFACE

This Stormwater Pollution Prevention Plan (SWPPP) was developed in accordance with the provisions of the Clean Water Act (33 U.S.C. §§1251 et seq., as amended), and the United States Environmental Protection Agency (EPA) National Pollutant Discharge Elimination System (NPDES) Multi-Sector General Permit for Stormwater Discharges Associated with Industrial Activity (MSGP) (U.S. EPA, January 2021) issued by EPA, and using the industry specific permit requirements for Sector P: Land Transportation and Warehousing and Sector D: Asphalt Paving and Roofing Material and Lubricant Manufacturing as a guides. The applicable stormwater discharge permit is EPA General Permit Tracking Number NMR050013 [Triad National Security, LLC (Triad)]. Click link to view <https://www.epa.gov/npdes/stormwater-discharges-industrial-activities-epas-2021-msgp>.

This SWPPP applies to discharges of stormwater from the operational areas of the TA-60 Roads and Grounds Facility, Sigma Mesa Staging Areas, and Asphalt Batch Plant at Los Alamos National Laboratory. Los Alamos National Laboratory (also referred to as LANL or the “Laboratory”) is owned by the Department of Energy (DOE) and is operated by Triad. Throughout this document, the term “facilities” refers to the TA-60 Roads and Grounds Facility, Sigma Mesa Staging Areas, and Asphalt Batch Plant. The current MSGP expires at midnight on February 28, 2026.

1.0 FACILITY DESCRIPTION

1.1 Facility Information

| | | |
|---|-----------|-----------------|
| Name of Facility: TA-60 Roads and Grounds | | |
| Street: | | |
| City: Los Alamos | State: NM | ZIP Code: 87545 |
| County: Los Alamos | | |
| NPDES ID (i.e., permit tracking number): NMR050013 MSGP 2021 | | |
| Primary Industrial Activity SIC code, and Sector and Subsector (2021 MSGP, Appendix D and Part 8): SIC Code 4231 , Sector P1 | | |
| Estimated area of industrial activity at site exposed to stormwater: 21.18 acres | | |

| | | |
|---|--|--|
| Discharge Information | | |
| Name(s) of surface water(s)/segment that receives stormwater from your facility: Sandia Canyon (Sigma Canyon to NPDES Outfalls 001) and Mortandad Canyon (within LANL). | | |
| Does this facility discharge industrial stormwater directly into any segment of an “impaired water” (see definition in 2021 MSGP, Appendix A)? <input checked="" type="checkbox"/> Yes No | | |
| Pollutants causing the impairment: Total Recoverable Aluminum, Dissolved Copper, and PCB (Aroclors) for Sandia Canyon. PCB (Aroclors), Adjusted Gross Alpha, and Dissolved Copper for Mortandad Canyon. | | |
| Pollutants causing the impairment (see above) that may be present in industrial stormwater discharges from this Facility: Dissolved Copper and Total Recoverable Aluminum | | |
| Are any of your stormwater discharges subject to effluent limitation guidelines (ELGs) (2021 MSGP Table 1-1)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | | |
| If Yes, which guidelines apply? Not applicable. | | |

| | | |
|--|-----------|-----------------|
| Name of Facility: TA-60 Asphalt Batch Plant | | |
| Street: | | |
| City: Los Alamos | State: NM | ZIP Code: 87545 |
| County: Los Alamos | | |
| NPDES ID (i.e., permit tracking number): NMR050013 MSGP 2021 | | |
| Primary Industrial Activity SIC code, and Sector and Subsector (2021 MSGP, Appendix D and Part 8): SIC Code 2951, Sector D1 | | |
| Estimated area of industrial activity at site exposed to stormwater: 2.3 acres | | |
| Discharge Information | | |
| Name(s) of surface water(s)/segment that receives stormwater from your facility: Mortandad Canyon (within LANL). | | |
| Does this facility discharge industrial stormwater directly into any segment of an “impaired water” (see definition in 2021 MSGP, Appendix A)? <input checked="" type="checkbox"/> Yes No | | |
| Pollutants causing the impairment: Adjusted Gross Alpha, Dissolved Copper, and PCB (Aroclors). | | |

| |
|---|
| Pollutants causing the impairment (see above) that may be present in industrial stormwater discharges from this Facility: |
| Are any of your stormwater discharges subject to effluent limitation guidelines (ELGs) (2021 MSGP Table 1-1)? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| If Yes, which guidelines apply? Section 8.D.5 2021 MSGP includes TSS, PH, oil, and grease. |

1.2 Stormwater Pollution Prevention Team (PPT)

The TA-60 Roads and Grounds Facility, Sigma Mesa Staging Areas, and Asphalt Batch Plant are part of the Utilities and Institutional (UI-DO) Facilities Facility Operations Director at Los Alamos National Laboratory with day to day management provided by Logistics Division-Heavy Equipment Roads & Grounds (LOG-HERG), which has established a PPT whose members are responsible for assisting the facility manager in developing and revising the facility’s SWPPP as well as maintaining control measures and taking corrective actions when required. All PPT members will have access to either a hard copy or an electronic version of this SWPPP.

The specific duties of individual team members of the PPT are listed in the following table:

| Staff Names | Individual Responsibilities |
|---|--|
| Deployed Environmental Professional (DEP): Leonard Sandoval, EPC-CP | Responsible for the management of all environmental programs and issues for the yards, buildings and facilities listed within this Plan. The DEP is responsible for training, recordkeeping, and SWPPP revision. The DEP ensures documentation of inspections and other required MSGP records relative to the SWPPP are managed in accordance with the Permit and established document control procedures and that the SWPPP is kept current. The DEP provides technical and regulatory support to facility and operations personnel regarding implementation of the MSGP and this SWPPP. Lastly, the DEP conducts routine facility inspections and if necessary, visual assessments, in accordance with the Permit. Identified conditions requiring corrective actions from routine facility inspections are entered into the Environmental Protection and Compliance-Compliance Programs (EPC-CP) Corrective Action Report (CAR) database. The DEP is responsible for tracking and updating the status of corrective actions that cannot be implemented immediately. The DEP is also responsible for immediate and timely communication to appropriate facility and operations management personnel to ensure that they are aware of non-compliant issues within the MSGP boundary and |

| Staff Names | Individual Responsibilities |
|--|--|
| | that they understand immediate action is required to correct the non-compliance. |
| Facility Operations Division (FOD) Manager: David E. Trujillo, Operations Manager, UI-OPS | Responsible for managing the maintenance and operation of all aspects of the yards, buildings and facilities listed within this Plan. The manager shall provide review and ensure coordination with core personnel and the PPT, as appropriate, when tenants within the FOD propose new processes, operations, features, or a new site that may be subject to the MSGP. This Manager/Representative is key to ensuring adequate communication and coordination of issues regarding implementation of the MSGP and this Plan. |
| EPC Core: Holly Wheeler, MSGP Program Lead, EPC-CP | The MSGP Program Lead is responsible for managing and administering the MSGP Program for all industrial facilities operated by Triad within Los Alamos National Laboratory. The MSGP Program Lead advises and provides guidance to facility or operations personnel on NPDES MSGP regulations/requirements. The Program Lead also acts as the institutional point of contact for all interactions with the regulatory authority (EPA) and supervises personnel implementing stormwater monitoring requirements for the facility. |
| Operations Manager(s): Gary McMillan, Logistics Superintendent Field Work Execution, LOG-SUP | Responsible for day-to-day operations at the facility. Assists the DEP and EPC with inspections; spill reporting; implementing, installing, and maintaining storm water controls (also known as Best Management Practices) (BMPs); and providing documentation as requested by other team members. The Operations Manager is key to ensuring adequate communication and coordination of issues regarding implementation of the MSGP and this Plan. Operations Managers also assist the DEP/EPC with SWPPP training and/or briefings, as requested. |

1.3 Site Description

Roads & Grounds/Sigma Mesa

Activities at Roads & Grounds/Sigma Mesa fall under Industrial Sector P, Land Transportation and Warehousing, of the 2021 MSGP.

Roads & Grounds/Sigma Mesa includes two locations; the main facility, Roads & Grounds, where operations personnel, trucks, equipment and materials used for deicing and maintaining Laboratory roads and grounds are stored and the east location, Sigma Mesa, where trucks, equipment and construction materials (sand, gravel, rock and clean soil) are staged.

Sigma Mesa is 0.9 miles east of Roads & Grounds. Most of the staging area is located north of Enewetak Road, with a smaller parking and storage area located south of Enewetak. Miscellaneous equipment parts (loading buckets, blades, etc.) are stored on both sides of the staging area.

Activities include the following:

- Storage of equipment and supplies used to maintain Laboratory roads and grounds.
- Storage of trucks and heavy equipment used to transport/haul material or move debris.
- Storage of bulk potassium acetate and other liquids applied for deicing.
- Staging of clean soil prior to reuse.
- Temporary concrete washout storage area.
- Small vegetative staging area.
- Potholing and culvert cleanout staging area.
- Staging of asphalt millings prior to reuse.
- Sediment catchment in the basin.
- Storage of sand, gravel, rock, landscaping materials, and herbicides related to grounds keeping and road maintenance.

Roads & Grounds covers approximately 9.4 acres, including 5.35 acres (about 65% of the total) of impervious surfaces such as roofs and paved areas. The area immediately surrounding the Roads & Grounds Building (TA-60-250) is paved with asphalt. The entire area within the fence of the pesticide storage shed is covered in asphalt and concrete. The areas immediately to the north and south of the salt shed are paved with asphalt. The entire heavy equipment storage yard is covered in asphalt. The remainder of the facility, with the exception of stormwater basins and drainage swales, is covered in gravel and/or recycled asphalt millings. These include the employee parking area, truck parking areas, storage sheds and transportainers, sign storage area, and the access roadways.

Sigma Mesa consists of approximately 11.2 acres, with less than 10% covered by impervious asphalt (Enewetak Road). The remainder consists of gravel, dirt surface, and undisturbed land.

Asphalt Millings Staging Area at TA-61 consists of approximately 0.58 acres with no impervious surface.

Asphalt Batch Plant

Industrial activities at the Asphalt Batch Plant fall under Sector D – Asphalt Paving and Roofing Material and Lubricant Manufacturing. The asphalt batch plant was disassembled and removed during the Fall of 2021. A new batch plant is currently under construction and is in process in the same location. Final stabilization under the Construction General Permit (CGP) has been completed and coverage will occur under the MSGP as a new facility.

The facility, located at the eastern edge of Sigma Mesa, and previously contained an office trailer for the facility operator and a BDM Model TM2000 Asphalt Plant with associated oil tanks. The primary function of the facility was to produce asphalt for the Laboratory as needed using the “batch” process. Asphalt batches are then trucked to project sites.

The following is an overview of the plant’s previous operational process:

- Aggregate material, used as feed stock for the asphalt production, is stockpiled on the west side of the property. There was at least one and sometimes more piles of material stored on the ground. The volume of stockpiled aggregate material on site at any given time is approximately 3,000 cubic yards.
- Front-end loaders transfer the aggregate material from stockpiles to a hopper/feeder unit and the material is then mechanically fed to the asphalt processing plant. The processing plant (a BDM Model TM2000 Asphalt Plant) includes a Hopper/Feeder Bin attached to a conveyor belt and a Batch Tower with drop and dryer unit.
- Asphalt emulsion oil and heated aggregate are mechanically mixed in the Batch Tower.
- Processed asphalt is transferred (dropped) from the Batch Tower into delivery trucks.
- Air emissions are controlled by the Bag House. Air emissions from the facility (including NO_x, SO_x, particulate matter) are regulated and currently in compliance with applicable air quality permits issued to LANL.

Outfall

The outfall location is shown on the site map provided in Figure B-3.

Roads & Grounds

Outfall 031: Stormwater flows south of building TA-60-250, the employee parking area, and from the south truck parking area to a sedimentation basin/detention pond, which

drains west towards this outfall. Stormwater from the area south of the salt shed flows into the drainage channel south of the lined retention pond and then east towards automated sampling station MSGP03101. It then travels through a culvert that runs south under Sigma Mesa Road before discharging into Mortandad Canyon.

Outfall 030: Small amounts of stormwater from the Heavy equipment storage yard driveway drain to the southeast corner of the yard, where they first enter an asphalt drainage swale along Sigma Mesa Road, then travel through a culvert under the road and discharge into Mortandad Canyon.

Outfall 032: Stormwater flows from the area north of the Salt Shed through the north heavy equipment storage and parking area to a riprap-lined channel that discharges to automated sampling station MSGP03201 (which is also known as Monitored Outfall 032) and then to the north towards Sandia Canyon.

Outfall 033: Stormwater flows north from the west side of the small equipment storage area and through the north parking lot where it discharges at a point north of the facility and then drains towards Sandia Canyon.

Outfall 034: Stormwater flows north from the east side of the small equipment storage area, west side of Bldg. 250 (main Roads & Grounds Facility building) and north vehicle parking area located northwest of Bldg. 250 where it discharges at a point north of the facility and then drains towards Sandia Canyon.

Outfall 035: Stormwater flows north from the east side of Bldg. 250, the north parking area behind the building, and from several transportainers on the northern site boundary. Stormwater discharges at a point on the northwest side of the transportainers and then flows north towards Sandia Canyon.

Sigma Mesa

Outfall 042: Stormwater flows northeast from the north equipment staging and stockpile area to a pond. Water in the pond discharges at automated sampling station MSGP04201 to a riprap lined channel that flows northeast towards Sandia Canyon.

Outfalls 037 and 084: These outfalls are both run downs of rip rap and erosion control blankets, which serve as discharge points for stormwater runoff that would accumulate along the berm that extends along the north end of the soil staging area. Stormwater, if discharged, would flow to the north and northeast, be collected in a swale located along the base of the berm and, if accumulated to an appropriate depth, would discharge through both of the run downs to Sandia Canyon at automated sampling station MSGP03701 for Outfall 037 and automated sampling station MSGP08401 for Outfall 084.

Substantially Identical Discharge Points

The following outfalls at Roads & Grounds and Sigma Mesa have been identified as substantially identical discharge points based on common potential pollutant sources, drainage areas, activities within the drainage areas, and general site topography and characteristics. Information supporting this outfall determination for monitoring includes outfall locations, facility activities and associated potential pollutants, runoff coefficients and control measures.

Outfalls 031 and 030: Both of these areas receive stormwater runoff to the south of the main facility, discharge stormwater that may come in contact with heavy equipment or trucks, and both have the potential to discharge stormwater runoff to Mortandad Canyon.

Outfalls 032, 033, 034, and 035: All of these outfalls receive stormwater runoff from the central portion of the main facility, discharge to Sandia Canyon, and discharge stormwater that may come in contact with vehicle or heavy equipment parking or storage. All outfalls at the facility are inclusive of monitoring performed at automated sampling station **MSGP03201** Outfall 032. This outfall receives runoff from all central areas of the main facility and is the outfall with the highest runoff coefficient. Therefore, monitoring at this outfall is representative of the remaining outfalls at the main facility discharging to Sandia Canyon.

Outfall 042: This outfall receives stormwater runoff from truck parking and equipment storage area and from construction material staging piles.

Outfall 084: This outfall may receive stormwater runoff from the east clean soil staging area. The outfall is a run-down of rip rap and erosion control blanket to prevent erosion at the discharge point. All soil staged within the area is clean, with the potential pollutants being sediment, hydraulic fluids, or diesel fuel should the heavy equipment leak during loading and unloading operations. All stormwater from these outfalls eventually discharges to Sandia Canyon.

Outfalls 037: This outfall may receive stormwater runoff from the west clean soil staging area. This outfall has a weir situated towards the top of an earthen berm with riprap to prevent erosion at the discharge point. All soil staged within the area is clean, with the potential pollutants being sediment, hydraulic fluids, or diesel fuel should the heavy equipment leak during loading and unloading operations. This yard is separated by a compacted earthen berm from the west Potholing and Culvert Clean-out staging areas. All stormwater from these outfalls would discharge to Sandia Canyon.

Asphalt Batch Plant

Outfall 043: Stormwater on the site primarily flows southeast. Outfall 043 is a pond overflow outlet (with Parshall Flume) at the east end of a stormwater retention pond on

the southeast boundary of the site. Overflow first flows east and then southeast toward Mortandad Canyon at automated sampling station **MSGP04301**. No stormwater is discharged to Tier 2, 2.5, or 3 waters.

1.4 General Location Maps

Roads & Grounds/Sigma Mesa

General facility site maps for Roads & Grounds and Sigma Mesa may be found in Figures B-1 to B-4. The nearby receiving waters maps (Figures B-5 to B-7) show the locations of all receiving waters associated with stormwater discharges from the facility. About 40% of the main site flows to Sandia Canyon. Runoff from Sigma Mesa goes primarily to Sandia Canyon. Sandia Canyon is a perennial stream that eventually flows into the Rio Grande approximately 10 miles southeast of the site.

Asphalt Batch Plant

A general facility site map of the new Asphalt Batch Plant that is currently under construction may be found in Figure B-3. The nearby receiving waters map (Figure B-6) shows the locations of all receiving waters associated with stormwater discharges from the facility.

1.5 Site Maps

Roads & Grounds/Sigma Mesa

Site boundaries and acreage

- Roads & Grounds covers 9.4 acres. Sigma Mesa covers 11.2 acres.

Significant structures and impervious surfaces

- Roads & Grounds is 65% impervious. Sigma Mesa is less than 1% impervious.

Direction of stormwater flow and site drainage

- Direction of flow is shown by arrows in the site map in Figures B-1 and B-2.
- The TA-61 Asphalt Millings Staging area in Figure B-4 does not discharge storm water due to the installation of a berm.

Locations of structural stormwater control measures

- See site map in Figures B-1, B-2, and B-3.

Locations of all receiving waters in the immediate vicinity of the facility

- See site map in Figures B-5 and B-7; are impaired.

Locations of all stormwater conveyances (including all ditches, pipes, and swales

- See site map in Figures B-1 and B-2.

Locations of potential pollutant sources

- See site map in Figures B-1 and B-2.

Locations of significant spills or leaks

- See Section 2.2

Locations of all stormwater monitoring points

- See site map in Figures B-1 and B-2.

Locations of stormwater inlets and outfalls

- See site map in Figures B-1 and B-2. The facility is not associated with a municipal separate storm sewer system.

Areas of designated critical habitat for endangered or threatened species

- Developed core habitat for the Mexican Spotted Owl. See Figure B-8 for Map of Threatened and Endangered Species on LANL Property.

Non-stormwater discharges

- None. See certification in Attachment 3.

Locations of activities exposed to precipitation

- Vehicle and equipment maintenance and/or cleaning areas.
- Loading/unloading areas.
- Locations used for the treatment, storage, or disposal of wastes.
- Liquid storage tanks.
- Processing and storage areas.
- Immediate access roads and used or traveled by carriers of raw materials, manufactured products, waste material, or by-products used or created by the facility.
- Transfer areas for substances in bulk.
- Machinery locations.

Locations and sources of run-on

- Sigma Mesa Road is paved. Run-on is judged possible, but with low erosion potential and little potential impact on receiving waters.

Asphalt Batch Plant

Site boundaries and acreage

- Approximately 2.3 acres.

Impervious surfaces:

- Paved areas, base-course structures, and other surfaces and structures – less than 0.1 acre.

Previous significant structures:

- One office trailer and two portable storage trailers.
- Hopper/feeder attached to conveyor belt.
- BDM Model TM2000 Asphalt Plant including Asphalt Batch Tower (with Drop) and Dryer Unit.
- Above-ground oil storage tanks – 15,000 gallon and 115 gallon.
- Bag House.
- ZEP truck-spraying structure.
- These structures were disassembled and removed during the Fall of 2021.

Directions of stormwater flow and site drainage

- Direction of flow is shown by arrows in the site map in Figure B-3.
- The site has a gentle downward grade toward the south-southeast. Drainage and stormwater flow are in that direction.
- Stormwater flow across the site is directed towards the stormwater retention pond at the southeast corner.

Locations of structural stormwater controls and conveyances

- An engineered stormwater retention pond is located in the southeast corner of the site. Parshall Flume on the east side of the pond helps monitor Outfall 043 and serves as the only outlet structure.
- In 2015 a fabric liner previously installed in the bottom of the pond and a layer of 3/4 inch river rock added in 2011 were removed. At the same time, to increase pond holding capacity and stormwater retention time, pond depth was increased by 2 ft.
- A one-foot high berm made of base-course and earthen materials and located along the east, west and south boundaries of the site serves to redirect stormwater flow toward the retention pond.
- On 6/23/2020 an angular rock berm was placed across the middle of the sediment retention pond to help with the sediment retention.
- A stormwater ditch along a portion of the east boundary conveys drainage to the retention pond.
- On 6/23/2020 a culvert was installed from the earthen berm along the east boundary at a SW angle to help re-direct storm water run-off back toward the retention pond.

- On 9/9/2023 angular rock was placed along the northwest end of the retention pond to slow the concentrated sheet flow from the site draining into the pond.

Locations of receiving waters

- Receiving waters in the immediate vicinity of the facility are shown in Figure B-6. Impaired waters information is provided on the map and also in the paragraph below this section in the SWPPP.

Locations of potential pollutant sources and locations of activities that are exposed to precipitation and potential sources of pollutants

- Because the asphalt batch plant was disassembled and removed during the Fall of 2021 and is no longer operational there are no potential pollutants from it. The new asphalt batch plant that is currently under construction may become operational this year.
- Bare soil and dirt roads on the site are potential sources of sediment and erosion.

Location of significant spills or leaks

- See Section 2.2

Location of all stormwater monitoring points

- Stormwater is monitored at Outfall 043.

Locations of stormwater inlets and outfalls

- Outfall 043 is associated with this facility. See site map in Figure B-3.

Location of discharge/outfalls to municipal storm sewer systems

- The facility has no connections or outfalls to a sewer system or an MS4.

Non-stormwater discharges

- No non-stormwater discharges have been identified for the facility. See Non-Stormwater Discharge Certification Attachment 3.

Locations of the following activities where such activities are exposed to precipitation are associated with the asphalt batch plant that was decommissioned in 2021

- Fueling stations – none at the facility. Asphalt emulsion oil, heating coil oil, and propane are delivered by truck.
- Vehicle and equipment maintenance and/or cleaning areas – none at the facility.
- Loading/Unloading areas. Asphalt is dropped from the Batch Tower (Structure 60-236) into trucks parked directly below the tower. Aggregate is loaded into the hopper/feeder unit (Structure 60-234) by a front-end loader.
- Liquid storage tanks. 2 liquid storage tanks: 15,000 gal and 115 gal tanks for asphalt emulsion oil. A 16,000 gal propane tank formerly on the site is no longer present.

Processing and storage areas

- Asphalt processing is no longer taking place due to the disassembly and removal of the asphalt batch plant during the Fall of 2021.

Immediate access roads

- Sigma Mesa Road (an extension of Enewetak Road) is used by trucks and other vehicles accessing the site. Asphalt is picked up at the site by trucks and then transported to off-site locations.

Transfer areas for substances in bulk

- See processing and storage areas above.

Machinery

- Disassembled and removed during the Fall of 2021.

Locations and sources of run-on

- Sigma Mesa Road is paved. Run-on is judged possible, but with low erosion potential and little potential impact on receiving waters.

Areas of designated critical habitat for endangered or threatened species

- The site is considered Developed Core Habitat for the Mexican Spotted Owl. See Figure B-8 for Map of Threatened and Endangered Species on LANL Property.

Asphalt Millings Staging Area at TA-61

Site boundaries and acreage

- Asphalt Millings Staging Area covers 0.58 acres.

Significant structures and impervious surfaces

- Asphalt Millings Staging Area is 0% impervious.

Direction of stormwater flow and site drainage

- Direction of flow is shown by arrows in the site map in Figure B-3.

Locations of structural stormwater control measures

- See site map in Figure B-4.

Areas of designated critical habitat for endangered or threatened species

- Developed core habitat for the Mexican Spotted Owl. See Figure B-8 for Map of Threatened and Endangered Species on LANL Property.

2.0 POTENTIAL POLLUTANT SOURCES

Industrial activities that could potentially result in releases to the environment are summarized in Section 2.1 below. Site maps for the facility are provided in Figures B-1 to B-4.

2.1 Potential Pollutants Associated with Industrial Activity

Roads & Grounds/Sigma Mesa

Storage of equipment and supplies used to maintain Roads & Grounds at LANL

The main Roads & Grounds facility has a yard to store four-wheelers, lawn tractors, lawn mowers, snow blowers, and miscellaneous small-engine equipment. There are approximately 100 pieces of equipment stored in the area although the inventory will vary depending upon how much equipment is deployed and/or in the shop for repairs or maintenance. Potential pollutants from this activity are fuel and oil from leaking equipment.

Storage of trucks and heavy equipment, used to transport/haul material or move debris.

Large trucks are parked at three locations in the parking lots around the main facility. Dump trucks, van trucks, and flatbed trucks are parked outside the south and/or east corner of TA-60-0029 and to the north of the small equipment storage area. Road salt spreading trucks are parked to the north of the Salt Shed. Heavy equipment is stored in the heavy equipment yard identified on the map and in 2022 was expanded north of the paved area within the fenced boundary. This yard is west and north of Salt Shed 60-0178. Maintenance is performed off site at the Heavy Equipment shop. In addition, passenger cars are parked in the gravel lot north of the sediment pond. Potential pollutants for this activity include spills of salt from the salt spreading trucks, and leaks or spills of fuel, oil, fluids (transmission and hydraulic), and anti-freeze.

Storage of bulk potassium acetate, GeoMelt™ and other liquids and road salt applied for deicing.

Two 5000 gallon storage tanks with salt brine (potassium acetate) are located north of Bldg. TA-60-0178. Four 10,000 gallon storage tanks are located south of Bldg. TA-60-0178. They contain potassium acetate, calcium chloride, protein, super mix (anti-icing/pre-wetting solution), and CRYOTECH CF7- Potassium Acetate and Corrosion Inhibitors. The salt shed provides indoor storage for road salt and Ice Slicer™. The potential pollutant sources are leaks or spills during refilling or transfer of liquid or solid product including sodium chloride and Ice Slicer (which is naturally occurring complex chlorides including magnesium, calcium, sodium, and potassium).

Staging of clean soil prior to reuse

Soil pre-screened as meeting NMED residential Soil Screening Levels and Soil Background Levels for Rad from areas throughout LANL is transported by dump truck, or end-dumps to the east soil staging area located at the Sigma Mesa Staging Areas (SMSA). One potential pollutant source would be sediment if it was transported with stormwater runoff from the site. The compacted earthen berm, weir, and riprap prevent sediment migration from this location. A gravel surface is no longer effective at preventing sediment transport off site from the south-central portion of the SMSA and

therefore at the end of the day when loading and unloading operations cease the area affected by sediment transport is sweep with a vacuum truck. Other potential pollutants include leaks or spills of fuel, oil, fluids (transmission and hydraulic), and anti-freeze from heavy equipment performing work in the area.

Asphalt Millings Staging Area at TA-61

Asphalt millings pre-screened as originating from uncontaminated areas throughout LANL is transported by dump truck, or end-dumps to the staging area located at TA-61. Potential pollutants include leaks or spills of fuel, oil, fluids (transmission and hydraulic), and anti-freeze from heavy equipment performing work in the area.

Potholing and Culvert Cleanout Staging Areas

Soil and mixture of water pre-screened as originating from uncontaminated areas throughout LANL is transported in a potholing machine to the far west staging area located at SMSA. One potential pollutant source would be sediment if it was transported with stormwater runoff from the site. A compacted earth berm and a vegetated buffer strip where water is allowed to evaporate from the mixture to prevent sediment migration from this location. Other potential pollutants include leaks or spills of fuel, oil, fluids (transmission and hydraulic), and anti-freeze from heavy equipment performing work in the area.

Heavy Equipment Operator Training Area

The training area is located east of the potholing and culvert cleanout staging areas and used to assess the skill level of newly hired operators on various pieces of heavy equipment. Activities include blading, trenching, and locating mock utilities that have been buried. One potential pollutant source would be sediment if it was transported with stormwater runoff from the site. A compacted earth berm and a vegetated buffer strip where water is allowed to evaporate from the mixture to prevent sediment migration from this location. Other potential pollutants include leaks or spills of fuel, oil, fluids (transmission and hydraulic), and anti-freeze from heavy equipment performing work in the area.

Sediment catchment in the detention basin

Soil/sediment from the main facility could travel with stormwater runoff to the detention basin located south of the facility. However, it is unlikely that sediment would discharge from the pond.

Storage of sand, gravel, rock, and other landscaping materials

Migration of materials along with potential for spills/leaks from heavy equipment used to stage them are considered potential pollutants associated with the storage of these materials.

Other potential pollutant sources

Pesticide Storage Shed (TA-60-0029) Outfall 033

A list of the pesticides, herbicides, and insecticides that are stored and mixed at TA-60-0029 is maintained and updated at TA-60-0250.

Other Sector P Specific Concerns

- On-site waste storage or disposal.
- Parking areas for vehicle awaiting maintenance. None-Solid Waste Management Units (SWMUs)

The following two areas—which are either within the boundaries of Roads & Grounds or could potentially be affected by stormwater runoff from it—have been designated as Solid Waste Management Units (SWMU's):

- 60-001(d) – Bermed storage area next to the Pesticide Storage Shed. Approved for No Further Action (NFA) status in 1994.
- 60-002 – This SWMU comprises several piles of asphalt, concrete, and debris located throughout Sigma Mesa. One of the piles was located within the current boundaries of Roads & Grounds. This pile was removed and disposed of before construction of the Roads & Grounds Facility and confirmation samples were collected from beneath the pile.

Data will be included in the report for the final disposition of the entire SWMU once all piles comprising the SWMU have been remediated and/or sampled. In the interim, there is no exposure of this SWMU to stormwater from Roads & Grounds since the portion included within Roads & Grounds Facility has been removed.

Asphalt Batch Plant

The following activities at the Asphalt Batch Plant are potential pollutant sources to stormwater discharges:

- Material loading and unloading operations.
- Outdoor storage of material.
- Waste handling and storage activities.
- Earth/soil moving.

Material loading/unloading operations

- There is currently very limited movement of material from loading and unloading operations as the result of the asphalt batch plant being disassembled and

removed. The new asphalt batch plant is currently under construction and may become operational this year.

Outdoor storage of material

- As a result of the asphalt batch plant being disassembled and removed there is currently very limited outdoor storage of material.

Waste handling

- Waste handling is limited to the use of a trash only bin located onsite.

Earth/soil moving.

Solid Waste Management Unit (SWMU)

One SWMU is located within the Asphalt Batch Plant boundary: 60-002. This is an area used at one time to store up to 50 piles of broken cured-asphalt chunks prior to recycling. Since the materials have been removed and the site upgraded for Asphalt Batch Plant operations, there is little potential for pollutants to be released into surface water runoff. Inorganic constituents including aluminum, arsenic, barium, cadmium, calcium, chromium, cobalt, iron, magnesium, nickel, selenium, vanadium, magnesium, lead, iron, copper, and beryllium are present in the subsurface at depths ranging from 1.5 ft to 15 ft. Organic constituents including acetone, diesel range organics, fluoranthene, fluorene, pyrene, and hexanone[2-] are present in the subsurface at depths ranging from 1.5 ft to 17 ft.

2.2 Spills and Leaks

Roads & Grounds/Sigma Mesa

Past Spills and Leaks

Table 1A presents a list of Roads & Grounds/Sigma Mesa areas where spills and leaks could occur.

Spills and leaks at Roads & Grounds/Sigma Mesa that occurred after March 1, 2021, the effective date of the 2021 MSGP, are summarized in in Attachment 24. Spills and leaks that occurred prior to March 1, 2021 are documented in previous SWPPP revisions.

Table 1A: Roads & Grounds/Sigma Mesa – Areas Where Spills/Leaks Could Occur

| Location | Outfalls |
|------------------------------|----------|
| Heavy Equipment Storage Yard | 032, 033 |

| | |
|-------------------------------|--------------------|
| Small Equipment Storage Yard | 032, 033, 034 |
| Craft storage buildings | 032, 033, 034, 035 |
| Vehicle storage at Sigma Mesa | 042 |

In the event of future spills or leaks, Attachment 24 will be revised to include them along with the nature of the spill or leak. The revision will be performed immediately upon completion and documentation of the spill response and cleanup.

The probability of spills or releases at the facility is minimized by the application of good housekeeping procedures and appropriate operational methods. As this facility regularly repairs heavy equipment and vehicles, spill protection is readily available on-site. Appropriate response measures for a spill or release of hazardous materials are applied when addressing spills. The specific spill response and cleanup procedures will depend on the nature of the spilled material. Specific spill response and reporting procedures for LANL are listed in Section 3.1.4.

Asphalt Batch Plant

Table 1B presents a list of Asphalt Batch Plant areas where spills and leaks could occur.

Table 1B: Asphalt Batch Plant – Areas Where Spills/Leaks Could Occur

| Location | Outfall |
|--|---------|
| Spills and leaks from heavy equipment operations | 043 |

Past Spills/Leaks

Spills and leaks at the Asphalt Batch Plant that occurred after March 1, 2021, the issuance date of the 2021 MSGP, are summarized in in Attachment 24. Spills and leaks that occurred prior to March 1, 2021 are documented in previous SWPPP revisions

Records of spills are also entered into the EPC-CP MSGP CAR database. Information recorded includes type of material spilled, quantity of spilled material, corrective actions taken, and the location and date of the spill event. This information is maintained for a period of three years from the date the permit expires, or the date the permittee’s authorization is terminated.

2.3 Unauthorized Non-Stormwater Discharges

Non-storm water discharges were evaluated, and none were present. The Certification of No Unauthorized Stormwater Discharge is in Attachment 3. This certification form certifies that all storm water outfalls have been evaluated for the presence of non-storm water discharges. This form will be updated whenever a change in possible non-storm water discharges is determined.

2.4 Salt Storage

Roads & Grounds/Sigma Mesa

Salt Shed 60-178, Super Mix Blending Station, and Associated Storage Tanks.

- Salt storage: The Salt Shed provides indoor storage for road salt and Ice Slicer. Bags of Ice Melt on wood pallets are also stored in a closed Transportainer (60-287) SE of TA-60 Building 250. Potential Pollutants: Road salt is primarily sodium chloride and Ice Slicer is naturally occurring complex chlorides including magnesium, calcium, sodium, and potassium.
- Salt and brine loading area.

Asphalt Batch Plant/TA-61 Asphalt Millings Staging Area

No salt storage or piles that contain salt are present at the facility.

2.5 Historical Data Summary

Permitted Facility: TA-60 Roads and Grounds Calendar Year (CY) 2022

No discharge occurred at outfall 084 during CY2022, therefore no data are available.

| Monitored Outfall | Discontinue Monitoring | | Continue Monitoring | | | | | | |
|-------------------|--|---|-----------------------------|-------------|-------------|-------------|--|--|---|
| | | | Benchmark Monitoring Status | | | | Indicator parameter monitoring required annually for entirety of permit. | Impaired water constituent was detected. Continue monitoring annually. | Impaired water constituent monitoring required in year 4. |
| | Average of four monitoring values did not exceed benchmark; quarterly monitoring discontinued until year 4 per Part 4.2.2.3. | Impaired water constituent was not detected in storm water discharge; annual monitoring discontinued until year 4 per Part 4.2.5.1. | Baseline | AIM Level 1 | AIM Level 2 | AIM Level 3 | | | |
| 031 | N/A ¹ | Adjusted Gross Alpha | N/A | N/A | N/A | N/A | COD, TSS, pH | Cu | — |
| 032 | N/A | — | N/A | N/A | N/A | N/A | COD, TSS, pH | Al, Cu | — |
| 037 | N/A | Total Aroclors | N/A | N/A | N/A | N/A | COD, TSS, pH | Al, Cu | — |
| 039 ² | N/A | — | N/A | N/A | N/A | N/A | COD, TSS, pH | Al, Cu, Total Aroclors | — |
| 042 | N/A | — | N/A | N/A | N/A | N/A | COD, TSS, pH | Al, Cu | — |
| 084 ² | N/A | — | — | — | — | — | — | — | — |

¹N/A – Not applicable. Sector-specific requirements do not include benchmark monitoring.

²Outfall 039 was decommissioned in August, 2022. Monitoring was initiated at a new outfall (084) and discontinued at 039 at that time.

AIM=Additional Implementation Measures

COD=Chemical Oxygen Demand

TSS=Total Suspended Solids

pH=Potential Hydrogen (Acidity or Alkalinity)

Al=Aluminum

Cu=Copper

Mercury was removed as an impairment from Mortandad Canyon (NM-90000.A_42) in the 2022-2024 State of New Mexico Clean Water Act 303(d)/305(b) Integrated Report, therefore, monitoring has been discontinued at outfall 031.

Permitted Facility: TA-60 Asphalt Batch Plant Calendar Year (CY) 2022

Effluent limitation guidelines parameters must be monitored annually and may not be discontinued.

| Monitored Outfall | Discontinue Monitoring | | Continue Monitoring | | | | | | | | | | | |
|-------------------|--|---|-----------------------------|-------------|-------------|-------------|--|--|---|--|--|--|--|---|
| | | | Benchmark Monitoring Status | | | | Effluent Limitation Guidelines (ELG) Monitoring Status | | | | | Indicator parameter monitoring required semi-annually for the first and fourth year of the permit. | Impaired water constituent was detected. Continue monitoring annually. | Impaired water constituent monitoring required in year 4. |
| | Average of four monitoring values did not exceed benchmark; quarterly monitoring discontinued until year 4 per Part 4.2.2.3. | Impaired water constituent was not detected in storm water discharge; annual monitoring discontinued until year 4 per Part 4.2.5.1. | Baseline | AIM Level 1 | AIM Level 2 | AIM Level 3 | ELG constituent was not detected. | ELG parameter was detected, but did not exceed daily min or max limit. | ELG parameter exceeded daily max limit. | ELG parameter was detected, but did not exceed 30-day average limit. | ELG parameter exceeded 30-day average limit. | | | |
| 043 | — | Hg ² | TSS | — | — | — | — | Oil and Grease, pH | TSS ¹ | Oil and Grease | TSS | PAHs | Adjusted Gross Alpha, Total Aroclors, Cu | — |

AIM=Additional Implementation Measures
 pH=pH (Acidity or Alkalinity of a solution)
 TSS=Total Suspended Solids
 PAHs=Polycyclic Aromatic Hydrocarbons
 Cu=Copper
 Hg=Mercury

¹TSS exceeded the ELG daily max and 30-day average limits. TSS must be monitored, at least quarterly, until stormwater discharge is in compliance with the effluent limit (Section 4.2.3.3.b).

²Hg was removed as an impairment from Mortandad Canyon (NM-90000.A_42) in the 2022-2023 State of New Mexico Clean Water Act 303(d)/305(b) Integrated Report, therefore, monitoring may be discontinued for the duration of the permit.

3.0 STORMWATER CONTROL MEASURES

Control measures at the facility are designed to minimize the potential release of pollutants that could adversely affect water quality

3.1 Non-Numeric Technology-Based Effluent Limits

3.1.1 Minimize Exposure

Roads & Grounds/Sigma Mesa

The Salt Shed provides indoor storage for road salt and Ice Slicer that is protected from coming in contact with stormwater by keeping three roll-up doors closed. At the end of every day after the movement of salt in and out of the salt shed a street sweeper is used to cleanup and push any residual salt on the asphalt outside the roll-up doors into the salt shed.

Small containers of fuel and oils are stored in a flammable cabinet located just inside the entrance to the small equipment storage area. Pesticides are stored inside a building.

Asphalt Batch Plant

Standard operating procedures and maintenance procedures at the facility are designed to stabilize exposed areas and contain runoff using structural and/or nonstructural control measures to minimize on-site erosion, sedimentation, and the resulting discharge of pollutants.

Material loading/unloading activities associated with the previous asphalt batch plant

Loading and unloading operations at the oil storage tanks (Structure 60-237), the hopper/feeder unit (Structure 60-234), and the Batch Tower (Structure 60-236) are the most likely areas where potential pollutants may be released and exposed to runoff. BMPs used at these locations include the following:

- Spills from heavy equipment resulting in diesel or hydraulic fluid leaks are addressed in accordance with the Spill Prevention Control and Countermeasures Plan for the Asphalt Batch Plant. The plan specifies that the Principal Operator at the Facility is the designated person responsible for spill prevention, reporting and maintenance of the spill control equipment at the Facility. All spills require an immediate response, and several facility operations personnel are trained annually to the plan. Any spills that have the potential to enter a water course require immediate response and must be reported immediately to Emergency Management Response EM-RESP). In addition, appropriate cleanup procedures

will be followed and the appropriate individuals or organizations responsible for the completion of appropriated spill reports will be notified.

- Bulk delivery of oil is supervised by the Facility Site Superintendent or other designated personnel.
- Prior to a fuel transfer, supervising personnel verify that the correct product is being delivered to the correct tank and that the volume of material to be transferred does not exceed the available space in the receiving container.
- Lines, hoses, and valve settings are inspected for leaks before and during transfers; dry disconnects or leak pans are used on hoses and connections when practical.
- Any spills or releases during oil loading/unloading operations are immediately responded to in accordance with the SPCC Plan and EPC-CP-QP 0903, Environmental Reporting Requirements for Releases or Events.
- Containment structures are in-place for the above ground oil storage tanks.
- Spill control equipment is available in the Control Room trailer (60-233).
- Overflow of asphalt material (tar slag and asphalt chunks) during loading of delivery trucks is minimized by careful supervision during loading operations. Overflow material is cleaned up as it occurs on site and is scooped up and placed into a New Mexico Special Waste area offsite by Waste Management Coordinators. P409 *LANL Waste Management* for this process is located in the Referenced Documents.
- Loading and unloading areas are kept clean and maintained to minimize collection of dust, debris, and potential pollutants.
- Fluids from unused heavy equipment, vehicles, and other equipment stored on-site for longer than 6 months will be drained.

Outdoor storage of materials associated with the previous asphalt batch plant

BMPs used to control pollutants from these sources include the following:

- The two oil storage tanks (Structure 60-237) are co-located in a concrete secondary containment unit. The concrete containment unit has a 3-inch curb that has a sufficient volume to contain the 115 gallon tank's contents with ample freeboard for storm flow. The full volume of the 15,000 gallon tank cannot be contained by the basin; however, it was not deemed necessary to provide full containment for this tank since the product will solidify on the surface with little to no soil penetration.
- Secondary containment will be provided for any materials containing liquids and stored on site

- Material or products that are stored in bags, boxes, or other perishable containers will be stored inside or under cover to prevent exposure.
- Whenever practical, materials and activities at the facility are protected to prevent exposure to rain, snow, snowmelt, or runoff.

Waste handling activities

BMPs used to control pollutants from these sources include the following.

- P409, *LANL Waste Management*, specifies methods for handling waste containers to minimize leaks and exposure to stormwater. Inspections are conducted to ensure that procedures are properly followed and that no potential contaminants are present in exposed areas.
- Small amounts of waste generated from the truck-loading operations at the Batch Tower, which includes solid or semi-solid aggregate, tar slag and asphalt chunks, is scooped up and placed into a New Mexico Special Waste area offsite by Waste Management Coordinators.
- A temporary vegetative material staging area is located on Sigma Mesa south of Enewetak Road across from the clean fill yard where material is staged prior to being delivered to the Los Alamos County Transfer Station.
- A temporary concrete washout bin storage area is located on Sigma Mesa north of Enewetak Road and east of the clean fill yard. The concrete washout bins are staged on paved asphalt and covered with tarps to help keep them from coming in contact with outside moisture. The concrete washout bins are managed as waste and when full are shipped offsite.

3.1.2 Good Housekeeping

Roads & Grounds/Sigma Mesa

Good housekeeping practices specifically applicable to the prevention of stormwater contamination include the following measures:

- Individual mixing operations take place in closed vessels, so that the potential for exposure of stormwater to materials is limited to loading and unloading activities. When possible, the road salt is stored inside the Salt Shed to prevent exposure to stormwater. The use of a brine solution for deicing operations is also being transitioned in to reduce the use of road salt.
- All storage areas are kept clean and neat. Vehicles and other equipment are stored and maintained in specified areas and heavy equipment repair and maintenance is never performed at this site.
- Garbage and floatables are routinely picked up by facility personnel. All garbage containers are covered to prevent windblown debris.

All site areas exposed to precipitation are walked down during daily operations and monthly routine facility inspections to ensure that the grounds are kept in an orderly condition. Vehicle and forklift parking areas are inspected for leaks or spills as well as storage areas containing oil-filled equipment. The entire site, including loading areas and outfalls, are inspected for floatable debris, garbage, waste and all other potential pollutants. All dumpsters and roll-off bins are inspected to ensure they are closed.

Asphalt Batch Plant

Routine operations at the facility are geared toward keeping the site clean, avoiding spills, and immediately attending to any spilled material according to LANL response guidelines.

Good housekeeping practices used at the facility to prevent stormwater contamination include the following.

- Routine inspections are performed for leaks and to check the condition of the tanks.
- Operational areas are maintained in a clean and orderly state.
- Containers holding raw material or product are kept closed when not in use and containers are not stored in areas that are exposed to precipitation or run-on.
- Containers and materials are properly labeled.
- Stormwater containment structures are kept clean of debris and trash; and berms around the site are kept clear of debris and trash.
- Access to the facility is controlled by a gate, which is located less than a quarter mile west of the Asphalt Batch Plant on Sigma Mesa Road. The facility is locked when unattended. A sign-in/out procedure is not required at the facility. However, visitors must notify the Facility Operator (upon arrival to the plant) that they are on-site to perform specified work or inspections.
- Spills or leaks are cleaned as soon as possible.
- Activities that damage or destroy existing vegetation are kept to a minimum.
- Employees are trained about these and other good housekeeping practices and their impact on stormwater discharge.
- Non-hazardous waste (e.g., trash) generated at the site is collected in a dumpster, which is picked up for disposal when it becomes full.
- No vehicle maintenance or vehicle washing is performed on site.

3.1.3 Maintenance

Control measures at the facility are kept in effective operating condition by the implementation of scheduled preventive maintenance, standard operating procedures (SOPs), engineering guidance, and manufacturer's specifications as applicable. If

control measures need to be replaced or repaired to maintain compliance with the 2021 MSGP, necessary modifications will be made according to the timelines specified in the *Corrective Action and Deadlines* requirements of Section 6.0 of this SWPPP.

Deficient items identified during routine facility inspections, walk-downs, or by any other means of identification, are documented on the routine facility inspection forms and entered into the MSGP CAR database. The condition requiring corrective action remain open until proper maintenance or corrective action has been completed. CAR information, along with documentation of maintenance/repair of control measures, is in Attachment 9 of the SWPPP.

Note: "All reasonable steps" means that the permittee has responded to condition(s) triggering the action, such as, cleaning up any exposed material that may be discharged in a storm event (e.g., through sweeping, vacuuming) or making arrangement (i.e., scheduling) for a new stormwater control measure (SCM) to be installed at a later date. If a control measure was never installed, was installed incorrectly or not in accordance with Part 2 and/or 8 of the 2021 MSGP, or is not being properly operated or maintained site personnel will conduct corrective action as specified in Part 5 of the 2021 MSGP.

The sediment retention ponds at Outfalls 042 and 043 are cleaned out every March or when the depth of sediment or debris reaches two-thirds (2/3) of the depth of the pond and when debris is at least six inches from the top. According to the manufacturing specifications the functional longevity for the Enviro-Soxx with Metal-Loxx wattles is 6 months to a year. At the monitored outfalls 031, 032, 084, and 042 and at substantially identical discharge points 033, 034, and 035 every 3 months the Metal-Loxx wattles are replaced. At monitored outfall 043 the Core Log at the concrete flume is replaced annually or as needed.

3.1.4 Spill Prevention and Response

Spills, leaks, or other releases are minimized and prevented by the application of good housekeeping procedures and regular visual inspections minimize the probability of a spill or release.

LANL institutional procedures P409 *LANL Waste Management* and P101-14 *Chemical Management* require labeling of wastes, used oils, and chemicals stored on-site to facilitate the proper handling and response if spills or leaks occur.

In general, the approach to spill cleanup is to secure the spill area and contact the Operations and Maintenance Coordinator (OMC) and/or the Emergency Management Response (EM-RESP) Team (if necessary). For incidental releases, Micro-Blaze or dry absorbents are used and contaminated absorbents from spill clean-up are disposed of properly.

All spills or releases are reported to EPC-CP by using the spills pager (505) 664-7722. Although incidental spills may be cleaned up by facility personnel, all emergency spills or releases are reported to (EM-RESP) and/or the Facility Duty Officer by calling 667-2400. If fire or explosion is present, or if the potential for such exists, the situation must

be reported by dialing 911 from a non-cellular phone or by activating a fire pull box. In the event of a spill, EM-RESP will coordinate appropriate cleanup procedures and EPC-CP will notify the individuals or organizations responsible for completing spill reports and providing information needed to fulfill regulatory reporting requirements.

Unauthorized releases or discharges within industrial facility boundaries are entered into the MSGP Corrective Action Reporting database in accordance with EPC-CP-QP-2109, *MSGP Corrective Actions*. In addition, the completion of an Unplanned Release Report is required in the event of a spill. The report is submitted to EPC-CP personnel and handled according to internal spill record keeping procedures. Spills may be “reportable” (requiring external agency notification) depending on the nature of the spilled material and the location of the release. External agency notification may consist of verbal and/or written notification to the National Response Center, Environmental Protection Agency (Region VI), or the New Mexico Environment Department (NMED). EMD-ER, the FOD and EPC-CP, in accordance with Laboratory and DOE policies and federal and state regulatory reporting requirements, will make the determination for the type of reporting required. EPC-CP-QP-903, *Environmental Reporting Requirements for Releases or Events* is used for this purpose (see Attachment 21).

Copies of internal spill reports are maintained by the responsible organization and in the EPC-CP database. The EPC-CP procedure for spill reporting and response, EPC-CP-QP-1007, *Spill Investigations*, can be found in Attachment 22 of this SWPPP.

Additional EPC-CP procedures for spill reporting and response (see Attachments 21 and 22) include:

- EPC-CP-QP-1007, Spill Investigations
- EPC-CP-QP-0903, Environmental Reporting Requirements for Releases or Events

3.1.5 Erosion and Sediment Control

Roads & Grounds/Sigma Mesa

Erosion and sediment are controlled at Roads & Grounds by preventing erosion through the use of pavement, compacted millings, and by trapping sediment. Velocity dissipation devices are installed at each discharge point.

General structural controls include the following:

- Runoff from the north side of the facility is collected in a drainage swale/base course berm and released to the canyon through rock check dams.
- Sediment traps/check dams: A sediment traps/check dams is located at the northeast corner of SMSA to trap sediment from the stone stockpile area.

Sigma Mesa

Several control measures are used at Sigma Mesa, including compacted earthen berms on the north, east, and west sides of the east and west soil staging areas. The northern berm of each staging area has riprap lined weirs, which serve as discharge points for stormwater runoff that would otherwise accumulate along the berm. There is a berm along the east central portion of Sigma Mesa and on the north side in the same general area. The gravel surface is no longer effective at preventing off-site sediment transport from the south-central portion of Sigma Mesa and therefore, at the end of the day, when loading and unloading operations end, the area affected by sediment transport is swept with a vacuum truck.

To retain stormwater runoff and to minimize the potential for off-site transport of material within the potholing and culvert clean-out staging areas, two primary control measures are implemented: a compacted earth berm and a vegetated buffer strip. The earth berm is approximately 430 ft long, extending across the entire length of the north side of the area, 2 ft or higher, with side slopes of approximately 2:1, and 2 ft wide across the top. It was sized to hold stormwater runoff from a 25-yr 2-hr storm event. The vegetated buffer strip, comprising existing perennial vegetation and woodchips obtained from on-site material and located immediately upslope from the compacted earth berm, is 50-ft wide. See the Sigma Mesa map in Figure B-2).

North of Eniwetok Rd. at the portion of Sigma Mesa farthest east, stormwater flows into a retention pond with riprap-lined discharge point located adjacent to the automated sampling station MSGP04201 at Outfall 042. Sediment is cleaned out of the retention pond when two-thirds full.

The south-central portion of Sigma Mesa (south of Eniwetok Rd.) contains a riprap-lined area leading to an existing berm that was extended to control stormwater runoff and allow water to collect and evaporate. The staging area is 0.9 miles east of the main facility, with most of it north of Eniwetok Rd. while a smaller parking and storage area is south of Eniwetok Rd. The area is primarily used for Teamster vehicle parking and materials (sand and gravel) storage.

Miscellaneous equipment parts (loading buckets, blades, etc.) are stored on both sides of the staging area, along with gravel and sand piles, soil for use as clean fill and potholing staging, vehicles, and miscellaneous equipment pieces. Leaks are prevented or contained through the use of drip pans, inspections, and routine maintenance.

Asphalt Batch Plant

Structural controls shown on the Asphalt Batch Plant site map in Figure B-3 includes the following:

Stormwater retention pond: A stormwater retention pond at the southeast corner of the site collects and manages stormwater run-off and provides an opportunity for sediments to settle out in the basin and not be transported off-site. Runoff from across the facility is directed toward the pond, and the water is held in the pond until it is released through the controlled outlet structure, evaporates, or infiltrates into the surrounding soil. In 2015 a fabric liner at the bottom of the pond and a layer of ¾-inch river rock added in 2011 were removed. To help increase the holding capacity and retention time of stormwater, the depth of the pond was increased by 2 ft.

Parshall Flume is located at the east side of the retention pond, which is part of stormwater monitored Outfall 043 and serves as the pond's outlet structure. This structure is used for sampling runoff and controlling runoff releases from the pond to provide better erosion control at the discharge. Riprap located at the flume discharge further slows down and disperses stormwater overflow from the pond. There is also a Core Log across the flume to help filter stormwater for suspended solids.

Riprap: Riprap at the east and west entrances of the stormwater retention pond reduces erosion in these areas and minimizes sediment transport into the pond.

Site grading: The facility grounds have been graded to produce a gentle downward grade toward the south-southeast so that site drainage and stormwater flow is directed towards the stormwater retention pond. Most of the facility is stabilized with gravel.

Berms: The site is bounded by base-course and earthen berms on the west, south, and east boundaries. The berms serve to redirect storm flow and site drainage toward the retention pond, minimizing sediment transport and runoff. The berms also prevent run-on to the site from adjacent lots not part of the facility.

Rip Rap: Two check dams made of angular rock that were installed in 2014 at the west end of the retention pond to reduce the sediment load in stormwater collected in the pond have been removed and angular rock was used to build up the rip rap at the west end of the retention pond.

Angular Rock Berm: Installed across the middle of the retention pond to help with sediment retention. Angular rock has also been placed along the northwest end of the retention pond to slow the concentrated sheet flow from the site draining into the pond.

Culvert: Installed from the earthen berm along the east boundary at a SW angle to help re-direct stormwater run-off back toward the retention pond.

Stormwater conveyance berm: An earthen berm made of base course is located along a portion of the site's east boundary to convey stormwater flow and site drainage to the retention pond.

Inspections

UI-PROC-41-20-001, Asphalt Plant Operation, includes regular inspection and maintenance of the facility's equipment, operational systems, and grounds. A copy is included in Referenced Documents. Facility personnel at the Asphalt Batch Plant conduct informal walk-around inspections daily to check the facility equipment and facility grounds. During these informal inspections, facility personnel take note of maintenance needs and initiate appropriate corrective actions. These routine activities help minimize the chance of failures, shutdowns, and other abnormal conditions that could result in leaks, spills, or other releases.

Items checked during inspections:

- Facility grounds in orderly condition
- Stormwater structures free of debris, floating material, and other obstructions
- Maintenance needs for equipment or stormwater BMPs
- Signs of new erosion
- Signs of leaks, spills, or other releases

If a problem cannot be immediately remedied, the inspection and response are documented per standard facility procedures.

All facility equipment, tanks, transfer piping and associated valves are located above ground and easily available during the monthly inspections. Integrity tests and in-service inspections are not required for the Asphalt Batch Plant oil tanks because as flow-through process tanks, they are exempt per NMED Petroleum Storage Tank (PST) Regulations (Section 20.5.1.7, Definitions), but the tanks and berms are checked for evidence of leaks or failure during SPCC and SWPPP inspections.

3.1.6 Management of Runoff

Roads & Grounds/Sigma Mesa

Runoff flows and is collected at the sediment retention pond at the far east end of Sigma Mesa at automated sampling station **MSGP04201** Outfall 042.

Asphalt Batch Plant

The site has a gentle downward grade toward the south-southeast, and site drainage and stormwater flow is in that direction. Stormwater flow across the facility is directed towards the stormwater retention pond at the southeast corner of the site boundary at automated sampling station **MSGP04301** Outfall 043.

Asphalt Millings Staging Area at TA-61

The site has an asphalt berm that runs from east to west at the southwest corner of the staging area that serves as an access point for heavy equipment. Another asphalt berms runs along the east perimeter of the staging area.

3.1.7 Salt Storage Piles or Piles Containing Salt

Roads & Grounds/Sigma Mesa

See Section 2.4.

Asphalt Batch Plant

No salt storage or piles containing salt are present at the facility.

3.1.8 Dust Generation and Vehicle Tracking of Industrial Materials

Roads & Grounds/Sigma Mesa

Dust is controlled throughout the site through the use of pavement, compacted millings, gravel, speed limits, and (as needed) sweeping with a street sweeper or dust suppression with potable water.

Asphalt Batch Plant

The area at and surrounding the facility is covered by asphalt and/or gravel. Care is taken to replenish the gravel layer when it gets thin from heavy equipment traffic. Dust suppression with potable water is performed as needed.

3.2 Numeric Effluent Limitations Based on Effluent Limitations Guidelines

Roads & Grounds/Sigma Mesa

Roads and Grounds does not have any numeric effluent limitations based on effluent limitations guidelines.

Part 8 of the 2021 MSGP identifies sector-specific requirements for Sector P – Land Transportation and Warehousing, in addition to the numeric limits outlined in this Section. The facility must comply with requirements associated with the primary industrial activities described in Section 1.3 and any co-located industrial activities as defined in Appendix A of the 2021 MSGP. Sector-specific requirements apply only to areas where sector-specific activities occur.

The following Sector-Specific Non-Numeric Effluent Limits are addressed at this facility:

Pesticide Storage Shed (TA-60-0029)

- Product mixing area: Mixing is performed outside the building in a containment area located north of the shed.
- Pesticide application equipment storage and maintenance: Spill prevention, containment and control and drip pans and good housekeeping.
- Stormwater trapped in the secondary containment is usually allowed to evaporate. In order to release stormwater from the secondary containment it must have a PH between 6 and 9, no odor or visible oily sheen, and the release must be documented on a liquid discharge form and submitted to EPC-CP.

Heavy Equipment Storage Yard

- The equipment storage yard is located west of the Salt Shed 60-0178 and includes the paved lot and open dirt staging area to the north within the perimeter fence.
- Storage of heavy equipment: Leaks are contained by drip pans and routine maintenance. Maintenance is performed off-site at the Heavy Equipment shop.

Small Equipment Storage Yard

- Small containers of fuel and oils are stored in a flammable cabinet located just inside the entrance to the small equipment storage area.

Vehicle Parking Lots

- Large trucks are parked at three locations in the parking lots around the facility. Dump trucks, van trucks and flatbed trucks are parked outside the southeast corner of TA-60-29 and to the north of the small equipment storage area. Road salt spreading trucks are parked to the north of the Salt Shed. Leaks are contained by drip pans and routine maintenance.
- Passenger cars are parked on asphalt north of the sediment pond. Leaks are contained by drip pans and routine maintenance.

Clean Fill Yards

- The 2.2 acres clean fill yard is located in between the Potholing and Culvert Cleanout areas. Equipment hauls fill into and out of these areas. There is also equipment involved in working the fill and soil.

Asphalt Millings Staging Area at TA-61

- The asphalt millings staging area at TA-61 is south of East Jemez Road and 0.58 acres. Equipment is used to haul millings into and out of the area and to load the asphalt millings.

Potholing and Culvert Cleanout Staging Yard

- The 1.32 acres potholing and culvert cleanout staging yard is located west and adjacent to the clean fill yard. The staging area consists of three open pits: the

first 27 ft wide by 25 ft long, the second 14 ft wide by 45 ft long, and the third 15 ft wide by 35 ft long. They are 4–8 ft deep. Equipment is used to haul potholing material into the area and to move it out when dry.

Operator Training Area

- The 0.58 acres heavy equipment operator training area is located east of the potholing and culvert cleanout staging areas and used to assess the skill level of newly hired operators on heavy equipment. Activities include blading, trenching, and locating buried mock utilities.

Fueling Areas

- Designated re-fueling location inside heavy equipment yard west of salt shed and on Sigma Mesa south of the clean fill yard next to the truck scales.

Material Storage Areas:

- Described under Small Equipment and Salt Storage for Roads and Grounds west. For Roads and Grounds east/Sigma Mesa they are described under waste handling activities.

Vehicle and Equipment Maintenance Areas

- No vehicle or equipment maintenance is performed at this facility.

Employee Training

- See Section 4.5.

Asphalt Batch Plant

Numeric Effluent Limitations based on Effluent Limitations Guidelines in Section 8.D.5 2021 MSGP includes TSS, PH, oil, and grease.

The following Sector-Specific Non-Numeric Effluent Limits are addressed at this facility:

Production of Asphalt Using the Batch Process

- See Sections 3.1.1 - 3.1.8 for specific controls.

Fueling Areas

- Designated re-fueling location at the NW corner of material storage pile area.

Employee Training

- See Section 4.5.

3.3 Water Quality-Based Effluent Limitations and Water Quality Standards

Impaired Receiving Waters/TMDLs

Impaired waters monitoring is performed annually at the facilities as listed in Section 4.7. The pollutants sampled can change yearly based on the requirements of the MSGP. The table in Section 4.7.1 lists the current year's sampling requirements and parameters.

Stormwater from the TA-60 Roads & Grounds Facility discharges to Sandia Canyon. Certain stream reaches within Sandia Canyon have been identified as impaired waters by the NMED Surface Water Quality Bureau (SWQB). According to the 2022-2024 State of NM Clean Water Act 303b/305b Integrated Report and Final List of Assessed Surface Waters, pollutants causing the impairment are listed as: Adjusted Gross Alpha, Dissolved Copper, and PCBs (Aroclors) for Mortandad Canyon. Total Recoverable Aluminum, Dissolved Copper, and PCBs (Aroclors) are impaired water pollutants for Sandia Canyon. Primary potential pollutant sources have been identified as post development erosion/sedimentation and urban runoff (NMED 2014). EPA has not yet approved or established TMDLs for Sandia Canyon.

Refer to Section 4.7 for specific actions that will be taken when a water quality standard is exceeded.

4.0 SCHEDULES AND PROCEDURES

Preventative maintenance of control measures used to comply with the Permit effluent limits can avoid situations that result in discharges to the environment. Part 6.2.5 of the 2021 MSGP specifies control measures will have a schedule or frequency for maintenance and procedures specifying how maintenance is conducted. Part 6.5 requires documentation of maintenance and repairs including the date(s) of regular maintenance. See Attachment 10 for the Scheduled Maintenance Log.

4.1 Good Housekeeping

See Section 3.1.2 of this SWPPP.

4.2 Maintenance

See Section 3.1.3 of this SWPPP.

4.3 Spill Prevention and Response

See Section 3.1.4 of this SWPPP. All relevant referenced procedures are provided in Attachments 21 and 22 of this SWPPP.

4.4 Erosion and Sediment Control

See Section 3.1.5 of this SWPPP.

4.5 Employee Training

Employee training is essential for effective implementation of the SWPPP and MSGP requirements. The goals for the training program are to ensure that employees: (1) are aware of what happens when pollutants come in contact with stormwater; (2) are familiar with and will implement the requirements of this SWPPP; (3) are capable of preventing spills; (4) respond safely and effectively to an accident when one occurs; (5) recognize when there is an issue with a control measure; (6) recognize when additional control measure are necessary; and (7) identify situations that could lead to stormwater contamination.

Per Part 2.1.2.8 of the 2021 MSGP, training relevant to the SWPPP and MSGP is required for all workers at the facility that work in areas where industrial materials or activities are exposed to stormwater (MSGP sites); workers, managers, and supervisors who are responsible for implementing activities necessary to meet the conditions of this permit (e.g., inspectors, maintenance personnel); and all members of the PPT. Training is designed to ensure these personnel understand the MSGP and SWPPP requirements, as well as their specific responsibilities regarding these requirements.

Training provided and assigned to these personnel cover both the specific control measures used at the facility; along with monitoring, inspection, planning, reporting, and documentation requirements described in this SWPPP. Training will be conducted at least annually. The DEP and Pollution Prevention Team members are responsible for ensuring all appropriate personnel receive this training.

Training activities are documented in accordance with LANL's Training Standards. In cases where training is formalized enough to require specific curricula and reoccurrence, the training activity is recorded in LANL's official U-TRAIN database. Informal briefings, such as those included in group safety meetings are not typically recorded in U-TRAIN. Sign-in sheets are used to document attendance and are considered official use only (OUO). All training records will be managed in accordance with P204-1, Controlled Unclassified Information.

Topics in this SWPPP that are covered in the latest version of the facility specific annual MSGP training (see Attachment 11) include the following:

- Overview of the SWPPP contents.
- Spill response and cleanup procedures, good housekeeping, maintenance requirements, and material management practices to prevent stormwater pollution.
- The location of all controls on the site required by this permit and how they are maintained.
- The proper procedures to follow with respect to the permit's pollution prevention requirements.
- When and how to conduct inspections, record applicable findings, and take corrective actions.

4.6 Routine Facility Inspections and Quarterly Visual Assessments

Routine inspections at this facility are conducted and documented monthly in accordance with EPC-CP-QP-2108, *MSGP Routine Facility Inspections* (Attachment 16). Visual assessments are conducted in accordance with EPC-CP-QP-2105, *MSGP Stormwater Visual Assessments* (Attachment 18).

4.6.1 Routine Facility Inspections

At least once each calendar year, the routine facility inspection is conducted during a period when a stormwater discharge is occurring. A qualified member of the PPT (typically the DEP, a representative from the EPC-CP Storm Water Permitting/Compliance Team or EPC-CP Program Lead) performs the inspection. EPC-CP will perform at least one routine inspection per year in order to evaluate corrective action status for the Annual Report requirements.

Routine inspections evaluate the following areas, at a minimum:

- Areas where industrial materials or activities are exposed to stormwater
- Areas identified in the SWPPP and those that are potential pollutant sources
- Areas where spills and leaks have occurred in the last three years
- Discharge points (outfalls/Substantially Identical Discharge Points (SIDPs); and
- Control measures used to comply with the effluent limits contained in this permit.
- Specific areas of the facility to be inspected are described in Section 2.1.

During routine inspections, the following must be examined and looked for:

- Industrial materials, residue or trash that may have or could come into contact with stormwater
- Leaks or spills from industrial equipment, drums, tanks, and other containers
- Offsite tracking of industrial or waste materials, or sediment where vehicles enter or exit the site
- Tracking or blowing of raw, final, or waste materials from areas of no exposure to exposed areas; and
- Control measures needing maintenance, repairs, or replacement.

Inspections performed by the PPT member are documented by completing the routine facility inspection form, which identifies all conditions requiring corrective action and other potential stormwater pollution issues that were encountered. All conditions requiring corrective actions identified during the inspection are addressed in accordance with Section 6.0 *Corrective Actions and Deadlines* of this plan. Facility personnel or the DEP may also perform daily, weekly, or other periodic facility surveys (walk downs) between monthly routine inspections to ensure compliance with the SWPPP and MSGP. Completed routine facility inspection forms are provided in Attachment 7 of this SWPPP and meet the requirements listed in the 2021 MSGP (Part 3.1.2.).

4.6.2 Quarterly Visual Assessments

Once each quarter, (January-March, April-June, July-September, October-December) a stormwater sample is obtained and visual assessment performed at each outfall, if a measurable storm event occurred. A qualified member of the PPT (DEP, EPC-CP Storm Water Permitting/Compliance team member or MSGP Program Lead) conducts the visual assessment. The visual assessment will be:

- Of a sample in a clean, clear colorless glass or plastic container and examined in a well-lit area
- On samples collected within the first 30 minutes of an actual discharge from a storm event or as soon as practicable thereafter. Alternatively, document why it was not possible to collect the sample within the first 30 minutes (i.e. adverse conditions, not enough flow, etc.) and
- Conducted at least 72 hours since the last storm event; or document that the 72-hour period is representative of local storm events during the sampling period.

Note: Snowmelt samples need only be collected during a period of measurable discharge.

The visual assessment will inspect for the following water quality characteristics: color, odor, clarity, floating solids, settled solids, suspended solids, foam, oil sheen, and other obvious indicators of stormwater pollution.

If a visual assessments is not conducted:

- Document rationale if a visual assessment is unable to be collected in a quarter (no precipitation event or adverse conditions, etc.);
- Perform an additional assessment during the next qualifying storm event if unable to perform in a particular quarter; and
- Perform one quarterly assessment during snowmelt discharge (taken during a measurable discharge from the site).

For facilities with SIDP, quarterly visual assessments may be performed at only one of the outfalls, provided that you perform visual inspections on a rotating basis at each SIDP.

The PPT member performing the visual assessment documents potential stormwater pollution problems that were observed during the assessment on the quarterly visual assessment form. Any condition requiring corrective actions identified during the assessment are addressed in accordance with Section 6.0 *Corrective Actions and Deadlines* of this plan. Completed quarterly visual assessments are provided in Attachment 8 of this SWPPP and meet the requirements listed in the 2021 MSGP (Part 3.2.2).

4.7 Monitoring

Analytical monitoring for this site is comprised of Impaired Waters and quarterly monitoring for industrial activities identified on Table 4-1 of the 2021 MSGP. Benchmark constituents and indicator parameters are monitored quarterly. Monitoring occurs when

storm events result in an actual discharge from the site and follow the preceding measurable storm event by at least 72 hours (3 days), unless documented that the storm event is representative of local storm events during the sampling period. For runoff from snowmelt, the monitoring is performed at a time when a measurable discharge from the site occurs.

Monitoring is conducted according to test procedures approved under 40 CFR Part 136. Runoff samples are collected by taking a minimum of one grab sample from a discharge, collected within the first 30 minutes of a measurable storm event. If it is not possible to collect the sample within the first 30 minutes of a measurable storm event, the sample is collected as soon as practicable after the first 30 minutes and documentation is kept with the SWPPP explaining why it was not possible.

LANL is in a high elevation, semi-arid climate where the majority of rainfall occurs during a period between July and September. Freezing conditions that would prevent runoff from occurring for extended periods may also occur during the winter months. If adverse weather conditions prevent the collection of a sample according to the relevant monitoring schedule, a sample will be collected during the next qualifying storm event or as soon as practicable.

Monitoring occurs at automated sampling stations **MSGP03201** and **MSGP03901** TA-60 Roads and Grounds West as identified in Section 1.3. Discharge from the facility are to the east into Sandia Canyon (impaired waters) and west into Mortandad Canyon (impaired waters) which are tributaries of the Rio Grande located approximately 10 miles east of the facility.

Monitoring occurs at automated sampling stations **MSGP03701**, **MSGP03901** and **MSGP04201** TA-60 Roads and Grounds East as identified in Section 1.3. Discharge from the facility is to the east into Sandia Canyon (impaired waters) which is a tributary of the Rio Grande located approximately 10 miles east of the facility.

Monitoring occurs at automated sampling station **MSGP04301** TA-60 Asphalt Batch Plant as identified in Section 1.3. Discharge from the facility is to the west into Mortandad Canyon (impaired waters) which is a tributary of the Rio Grande located approximately 10 miles east of the facility.

For impaired waters pollutants monitoring is required annually in the first and fourth year of permit coverage. If any pollutant associated with the impairment is detected annual monitoring will continue.

If the impaired water or benchmark constituent value exceeds the New Mexico Water Quality criterion the Pollution Prevention Team will:

- Review the selection, design, installation, and implementation of control measures to determine if modifications are necessary to meet the effluent limits
- Implement the necessary modifications within the timeframe specified for corrective action; and
- Continue benchmark or annual monitoring of the constituent (as required by Part 4.2 of the 2021 MSGP)

For each monitoring event, except snowmelt monitoring, the following information will be recorded and maintained through work orders, LANL database systems, and Discharge Monitoring Records:

- The date, exact place, and time of sampling or measurements
- The date and duration (in hours) of the rainfall event
- Rainfall total (in inches) for that rainfall event
- The individual(s) who performed the sampling or measurements
- The date(s) analyses were performed
- The individual(s) who performed the analyses
- The analytical techniques or methods used; and
- The results of such analyses.

All records of monitoring information, including all calibration and maintenance records are maintained for a minimum period of at least three years from the date the permit expires.

LANL's applicable stormwater monitoring procedures can be found in the following attachments:

- EPC-CP-TP-2103, *Inspecting ISCO Stormwater Runoff Samplers and Retrieving Samples* (Attachment 19).
- EPC-CP-QP-2106, *Processing MSGP Stormwater Samples* (Attachment 20).

Section 4.7.1 Required Monitoring for Calendar Year (CY) 2023

TA-60 Roads and Grounds Facility

| Outfall | Monitoring Requirement | Industrial Sector | Assessment Unit | Analyte | Filtered/Unfiltered | Regulatory Standard | Units | Regulatory Standard Type | Regulatory Standard Reference |
|---------|------------------------|-------------------|----------------------------------|---------|---------------------|---------------------|-------|--------------------------|-------------------------------|
| 031 | Impaired Waters | — | NM-9000.A_042 | Cu | F ¹ | N/A | µg/L | Report Only | Part 4.2.5.1 |
| | Indicator Parameter | P | — | COD | UF | N/A | mg/L | Report Only | Part 4.2.1.1 |
| | Indicator Parameter | P | — | TSS | UF | N/A | mg/L | Report Only | Part 4.2.1.1 |
| | Indicator Parameter | P | — | pH | UF | N/A | SU | Report Only | Part 4.2.1.1 |
| | Quarterly Benchmark | P | No Benchmark Monitoring Required | | | | | | |
| 032 | Impaired Waters | — | NM-9000.A_047 | Al | F10u ² | N/A | µg/L | Report Only | Part 4.2.5.1 |
| | Impaired Waters | — | NM-9000.A_047 | Cu | F ¹ | N/A | µg/L | Report Only | Part 4.2.5.1 |
| | Indicator Parameter | P | — | COD | UF | N/A | mg/L | Report Only | Part 4.2.1.1 |
| | Indicator Parameter | P | — | TSS | UF | N/A | mg/L | Report Only | Part 4.2.1.1 |
| | Indicator Parameter | P | — | pH | UF | N/A | SU | Report Only | Part 4.2.1.1 |
| | Quarterly Benchmark | P | No Benchmark Monitoring Required | | | | | | |
| 037 | Impaired Waters | — | NM-9000.A_047 | Al | F10u ² | N/A | µg/L | Report Only | Part 4.2.5.1 |
| | Impaired Waters | — | NM-9000.A_047 | Cu | F ¹ | N/A | µg/L | Report Only | Part 4.2.5.1 |
| | Indicator Parameter | P | — | COD | UF | N/A | mg/L | Report Only | Part 4.2.1.1 |
| | Indicator Parameter | P | — | TSS | UF | N/A | mg/L | Report Only | Part 4.2.1.1 |
| | Indicator Parameter | P | — | pH | UF | N/A | SU | Report Only | Part 4.2.1.1 |
| | Quarterly Benchmark | P | No Benchmark Monitoring Required | | | | | | |

| | | | | | | | | | |
|-----|---------------------|---|----------------------------------|----------------|-------------------|-----|------|-------------|--------------|
| 042 | Impaired Waters | — | NM-9000.A_047 | Al | F10u ² | N/A | µg/L | Report Only | Part 4.2.5.1 |
| | Impaired Waters | — | NM-9000.A_047 | Cu | F ¹ | N/A | µg/L | Report Only | Part 4.2.5.1 |
| | Indicator Parameter | P | — | COD | UF | N/A | mg/L | Report Only | Part 4.2.1.1 |
| | Indicator Parameter | P | — | TSS | UF | N/A | mg/L | Report Only | Part 4.2.1.1 |
| | Indicator Parameter | P | — | pH | UF | N/A | SU | Report Only | Part 4.2.1.1 |
| | Quarterly Benchmark | P | No Benchmark Monitoring Required | | | | | | |
| 084 | Impaired Waters | — | NM-9000.A_047 | Al | F10u ² | N/A | µg/L | Report Only | Part 4.2.5.1 |
| | Impaired Waters | — | NM-9000.A_047 | Cu | F ¹ | N/A | µg/L | Report Only | Part 4.2.5.1 |
| | Impaired Waters | — | NM-9000.A_047 | Total Aroclors | UF | N/A | µg/L | Report Only | Part 4.2.5.1 |
| | Indicator Parameter | P | — | COD | UF | N/A | mg/L | Report Only | Part 4.2.1.1 |
| | Indicator Parameter | P | — | TSS | UF | N/A | mg/L | Report Only | Part 4.2.1.1 |
| | Indicator Parameter | P | — | pH | UF | N/A | SU | Report Only | Part 4.2.1.1 |
| | Quarterly Benchmark | P | No Benchmark Monitoring Required | | | | | | |

¹F - 0.45 µm filter

²F10u – 10 µm filter

NM=New Mexico

Cu=Copper

N/A=Not applicable

µg/L=Micrograms per Liter

UF=Unfiltered

mg/L=Milligrams per Liter

COD=Chemical Oxygen Demand

TSS=Total Suspended Solids

pH=pH (Acidity or Alkalinity of a solution)

SU=Standard Units

Al=Aluminum

TA-60 Asphalt Batch Plant

| Monitored Outfall | Monitoring Requirement | Industrial Sector | Assessment Unit | Analyte | Filtered/Unfiltered | Regulatory Standard | Units | Regulatory Standard Type | Regulatory Standard Reference |
|-------------------|---------------------------------|-------------------|-----------------|----------------------|---------------------|---------------------|-------|--------------------------|-------------------------------|
| 043 | Quarterly Benchmark | D | — | TSS | UF | 100 | mg/L | Benchmark Limit | Part 8.D.4 |
| | Impaired Waters | — | NM-9000.A_042 | Adjusted Gross Alpha | UF | N/A | pCi/L | Report Only | Part 4.2.5.1 |
| | Impaired Waters | — | NM-9000.A_042 | Cu | F ¹ | N/A | µg/L | Report Only | Part 4.2.5.1 |
| | Impaired Waters | — | NM-9000.A_042 | Total Aroclors | UF | N/A | µg/L | Report Only | Part 4.2.5.1 |
| | Effluent Limitations Guidelines | D | — | TSS | UF | 23 | mg/L | ELG Daily Maximum | Part 8.D.5 |
| | Effluent Limitations Guidelines | D | — | TSS | UF | 15 | mg/L | ELG 30-Day Average | Part 8.D.5 |
| | Effluent Limitations Guidelines | D | — | Oil and Grease | UF | 15 | mg/L | ELG Daily Maximum | Part 8.D.5 |
| | Effluent Limitations Guidelines | D | — | Oil and Grease | UF | 10 | mg/L | ELG 30-Day Average | Part 8.D.5 |
| | Effluent Limitations Guidelines | D | — | pH | UF | 6-9 | SU | ELG Minimum/Maximum | Part 8.D.5 |

¹F - 0.45 µm filter

TSS=Total Suspended Solids

PAHs=Polycyclic Aromatic Hydrocarbons

UF=Unfiltered

N/A=Not applicable

mg/L=Milligrams per Liter

µg/L=Micrograms per Liter

pCi/L=Picocuries per Liter

NM=New Mexico

Cu=Copper

ELG=Effluent Limitations Guidelines

pH=Potential Hydrogen (Acidity or Alkalinity)

and SU=Standard Units

5.0 DOCUMENTATION FOR ELIGIBILITY CONSIDERATIONS UNDER OTHER FEDERAL LAWS

5.1 Endangered Species

The Final Site-Wide Environmental Impact Statement (EIS) for the Operation of Los Alamos National Laboratory (DOE/EIS-0380) was issued in May 2008, and a Record of Decision in September 2008. Stormwater issues and associated pollution prevention requirements and activities at LANL are analyzed in Chapters 4 and 5 of the 2008 Site-Wide EIS. These activities are integrated into environmental reviews on a project-specific level through LANL's Integrated Review Tool (IRT), which incorporates both the Excavation Permit (EX-ID) and Permit Requirements Identification (PR-ID) process. Stormwater issues are identified, and pollution prevention activities are implemented during the design and construction phases of all LANL projects, and as part of facility operations, including routine maintenance. LANL staff monitors stormwater pollution prevention compliance at MSGP sites in accordance with Section 4.7 *Monitoring* of this plan. Corrective actions are taken as necessary as described in Section 6.0 *Corrective Actions and Deadlines* of this plan.

Part 2.3 of the 2021 MSGP requires areas of designated critical habitat for endangered or threatened species, as applicable, be included in the SWPPP. The *Threatened and Endangered Species Habitat Management Plan for Los Alamos National Laboratory* (LA-UR-22-20556) was last updated in January 2022 (see Attachment 13). This document provides a management strategy for the protection of threatened and endangered species and their habitats on LANL property. The MSGP IPaC Trust Resource Report (see Attachment 14) is also attached for informational purposes.

5.2 Historic Properties

In April 2021, August 2015, and December 2008, the Cultural Resources Team (using GPS spatial data as well as conducting visual inspections), reviewed the Laboratory industrial sites (see list below) and their associated outfalls and monitoring stations subject to the 2021 Multi-Sector General Permit (NMR050013 MSGP 2021) for effects on historic properties. All of these sites were found to be undertakings of no effect and in compliance with Section 106 of the National Historic Preservation Act (i.e., Criterion B).

- TA-03-0038 Metals Fabrication Shop
- TA-09-0214 Metals Fabrication Shop
- TA-16 Stockpile Area
- TA-60 Asphalt Batch Plant
- TA-60-0001 Heavy Equipment Yard
- TA-60 Material Recycle Facility
- TA-60 Roads and Grounds
- TA-60-0002 Warehouse

6.0 CORRECTIVE ACTIONS AND DEADLINES

When any of the following conditions occur or are detected during an inspection, Level 1, 2, or 3 additional implementation measures (AIM) monitoring, or any other means, this SWPPP (e.g., sources of pollution; spill and leak procedures; non-stormwater discharges; the selection, design, installation and implementation of control measures) is reviewed and revised (as appropriate).

- An unauthorized release or discharge (e.g., spill, leak, or discharge of non-stormwater not authorized by this or another NPDES permit to a water of the U.S.) occurs at the facility;
- A discharge violates a numeric effluent limit;
- Stormwater control measures are not stringent enough for stormwater discharge to be controlled as necessary such that the receiving water of the United States will meet applicable water quality standards or to meet the non-numeric effluent limits in the permit;
- An inspection identifies that a required control measure was never installed, was installed incorrectly or is not being properly operated or maintained; and
- Whenever a visual assessment shows evidence of stormwater pollution.

The purpose is to ensure effluent limits of the 2021 MSGP permit are met and pollutant discharges are minimized.

When any of the following conditions occur, a review of the selection, design, installation, and implementation of control measures is performed to determine if modifications are necessary to meet the effluent limits in this permit:

- Construction or a change in design, operation, or maintenance at the facility significantly changes the nature of pollutants discharged in stormwater from the facility, or significantly increases the quantity of pollutants discharged; or
- The average of 4 quarterly sampling results exceeds an applicable benchmark. If less than 4 benchmark samples have been taken, but the results are such that an exceedance of the 4 quarter average is mathematically certain (i.e., if the sum of quarterly sample results to date is more than 4 times the benchmark level) this is considered a benchmark exceedance, triggering this review (see Section 4.7); or
- If an impaired water constituent exceeds the NM Water Quality criterion (see Section 4.7).

If any of the AIM triggering events (i.e., an annual average exceeds an applicable benchmark threshold) in Parts 5.2.3, 5.2.4, or 5.2.5 occur, PPT members must follow the response procedures described in those parts. "An annual average exceedance for a benchmark parameter can occur if:

- 1) The four-quarter annual average for a parameter exceeds the benchmark threshold, or
- 2) Fewer than four quarterly samples are collected, but a single sample or the sum of any sample results within the sampling year exceeds the benchmark threshold by more than four times for a parameter.

There are three AIM levels: AIM Level 1, Level 2, and Level 3. PPT members must respond, as required, to different AIM levels which prescribe sequential and increasingly robust responses when a benchmark exceedance occurs. The corresponding AIM level responses and deadlines described in Parts 5.2.3.1, 5.2.3.2, 5.2.4.1, 5.2.4.2, 5.2.5.1 and 5.2.5.2 must be followed unless the facility qualifies for an exception under Part 5.2.6.

When the review identifies the need to modify the SWPPP, it will be revised within 14 calendar days of completion of the associated condition requiring corrective action.

6.1 Immediate Actions

When a condition requiring corrective action is identified, all reasonable steps necessary to minimize or prevent the discharge of pollutants are immediately taken (i.e., spill clean-up, scheduling repairs) until a permanent solution (if needed) can be implemented. Immediate action means all reasonable steps are taken the same workday or no later than the following workday (when it is too late in the day to take corrective action).

6.2 Subsequent Actions

When additional corrective actions are required (e.g. installing or making operational a new or modified control, completing repairs, ordering BMPs) they will be completed by the next storm event, if possible, or within 14 calendar days (from initial discovery). When it is determined that it is infeasible to complete corrective actions within 14 days, documentation of infeasibility and a schedule for completion of the work is documented in the CAR database, which will be completed no later than 45 days (from initial discovery). When it is determined that corrective actions will exceed 45 days, EPA is notified and provided justification of why actions will exceed the timeframe; and a minimal amount of additional time to complete the work may be approved.

6.3 AIM baseline Status and Triggering Events

Once the facility is authorized to discharge under the MSGP, it is considered to be in a baseline status for all applicable benchmark parameters required by that facility to be monitored. If an AIM triggering event occurs, the facility may return directly to baseline status once the corresponding AIM-level response and conditions are met.

6.3.1 AIM Level 1

When an annual average exceeds an applicable benchmark threshold, the PPT must immediately review the MSGP SWPPP and the selection, design, installation, and implementation of stormwater control measures to ensure the effectiveness of existing measures and determine if modifications are necessary to meet the benchmark threshold for the parameter that exceeded.

Note: An AIM triggering event is outfall and parameter specific. After reviewing the SWPPP, additional measures, considering good engineering practices, will be implemented, that will reasonably be expected to bring the exceedance below the parameter's benchmark threshold.

Note: If it is determined that nothing further is required to bring the exceedance below the parameter's benchmark threshold for the next 12-month period, document this in the MSGP CAR database.

All modifications and additional control measures required in response to AIM Level 1 will be implemented within 14 days of identification of an AIM Level 1 exceedance. If doing so within 14 days is infeasible, documentation is entered into the MSGP CAR database as to why it is infeasible. Completion of the response must occur within 45 days.

Note: There is no provision in the 2021 MSGP for exceeding the 45-day time frame for response to AIM Level 1."

An additional four quarters of Benchmark monitoring will occur at the outfall where the parameter exceeded the benchmark threshold for AIM Level 1. This monitoring will begin no later than the next full quarter after all responses and deadlines required by AIM Level 1 have been completed. After four quarters of monitoring, the parameter will either return to baseline (see Section 6.3) if it does not exceed the same benchmark threshold or, another annual average exceeds the benchmark threshold causing the facility to move to AIM Level 2.

6.3.2 AIM Level

When a second benchmark threshold exceedance occurs at an outfall, the PPT will review the SWPPP and implement additional pollution prevention/good housekeeping SCMs, (considering good engineering practices), beyond those implemented in response to AIM Level 1.

Additional control measures required in response to AIM Level 2 will be implemented within 14 days of identification of the AIM Level 2 exceedance. If it is feasible to implement a measure, but not within 14 days, facility personnel may take up to 45 days to implement the measure. In this case, documentation will be entered into the MSGP CAR database identifying why it was infeasible to implement the control measure within

14 days. EPA may grant an extension beyond 45 days, based on an appropriate demonstration by the operator.

An additional four quarters of benchmark monitoring will occur at the outfall where the parameter exceeded the benchmark threshold for AIM Level 2. This monitoring will begin no later than the next full quarter after all responses and deadlines required by AIM Level 2 have been completed. After four quarters of monitoring, the parameter will either return to baseline (see Section 6.3) if it does not exceed the same benchmark threshold or, the parameter continues to exceed the benchmark threshold causing the facility to move to AIM Level 3.

6.3.3 AIM Level 3

When a third benchmark threshold exceedance occurs at an outfall, facility personnel will install structural source controls (e.g., permanent controls such as permanent cover, berms, and secondary containment), and/or treatment controls (e.g., sand filters, hydrodynamic separators, oil-water separators, retention ponds, and infiltration structures). The controls, treatment technologies, or treatment train installed will be appropriate for the pollutant that triggered AIM Level 3, will be sufficient to bring the exceedance below the benchmark threshold and, will be more rigorous than the SCMs implemented under AIM Level 2. These controls will be installed for the outfall that exceeded the benchmark threshold and SIDPs, unless monitoring of the SIDPs demonstrates AIM Level 3 requirements are not triggered at those discharge points.

A schedule for installing the structural source and/or treatment stormwater control measures will be identified and documented in the MSGP CAR database within 14 days. Control measures in response to AIM Level 3 will be installed within 60 days unless it is not feasible to install them within 60 days. In this case, up to 90 days can be taken provided justification identifying why it is infeasible to install the measure within 60 days is documented in the MSGP CAR database. EPA may grant an extension beyond 90 days, based on an appropriate demonstration by the operator.

An additional four quarters of benchmark monitoring will occur at the outfall where the parameter exceeded the benchmark threshold for AIM Level 3. This monitoring will begin no later than the next full quarter after all responses and deadlines required by AIM Level 3 have been completed. After four quarters of monitoring, the parameter will either return to baseline (see Section 6.3) if it does not exceed the same benchmark threshold or, the facility will remain in AIM Level 3 and EPA may require the facility to apply for an individual permit.

6.3.4 AIM Exceptions

Any AIM Level exceedance may qualify for an exception from specific AIM requirements and continued benchmark monitoring after four quarters of monitoring, provided the requirements to demonstrate qualification of the exception are followed (see Parts

5.2.6.1 through 5.2.6.5 of the permit). These exceptions include the following for benchmark exceedances:

- 1) Solely attributable to natural background pollutant levels
- 2) Due to run-on
- 3) Due to an abnormal event
- 4) Demonstrated to not result in an exceedance of facility-specific value using the national recommended water quality criteria in-lieu of the applicable MSGP benchmark threshold (for aluminum and copper benchmark parameters only) or
- 5) Demonstrated to not result in any exceedance of water quality standards.

Note: There are very specific and complicated documentation requirements and time frames that have to be met to qualify for any of these exceptions. Therefore, any demonstration to qualify for an exception will be coordinated through a representative of the EPC-CP Storm Water Permitting/Compliance Team.

6.4 Corrective Actions and AIM Documentation

Upon discovery, conditions requiring corrective action are documented by the DEP or EPC-CP on a Routine Facility Inspection Form and/or entered into the CAR database. The action will be kept open in the database until the issue has been resolved. Documentation of maintenance and repairs of stormwater control measures (BMPs) will be kept in Attachment 10 of this SWPPP. Where corrective actions result in changes to procedures or controls documented in this SWPPP, modifications to the SWPPP are made accordingly within 14 calendar days of completing the corrective action(s). LANL procedure EPC-CP-QP-2109, *MSGP Corrective Actions* can be found in Attachment 17.

Any AIM Level triggering event will conform to the requirements and time frames provided in Sections 6.3 and 6.3.1 through 6.3.4.

7.0 ACRONYMS

| | |
|---------|-------------------------------------|
| AIM | Additional Implementation Measures |
| BMP | Best Management Practice |
| CAR | Corrective Action Report |
| CGP | Constructions General Permit |
| DEP | Deployed Environmental Professional |
| DOE | Department of Energy |
| EIS | Environmental Impact Statement |
| ELG | Effluent Limitation Guidelines |
| EM-RESP | Emergency Management Response |

| | |
|------------------------|---|
| EPA | Environmental Protection Agency |
| EPC-CP | Environmental Protection and Compliance – Compliance Programs |
| FOD | Facility Operations Division |
| IPaC | Information for Planning and Consultation |
| LANL or the Laboratory | Los Alamos National Laboratory |
| MSGP or Permit | Multi-Sector General Permit |
| NMED | New Mexico Environmental Department |
| NOI | Notice of Intent |
| NPDES | National Pollutant Discharge Elimination System |
| OUO | Official Use Only |
| PPT | Pollution Prevention Team |
| SCM | Stormwater Control Measure |
| SIDP | Substantially Identical Discharge Points |
| SMSA | Sigma Mesa Staging Areas |
| SWPPP | Stormwater Pollution Prevention Plan |
| URL | Uniform Resource Locator |

8.0 SWPPP CERTIFICATION

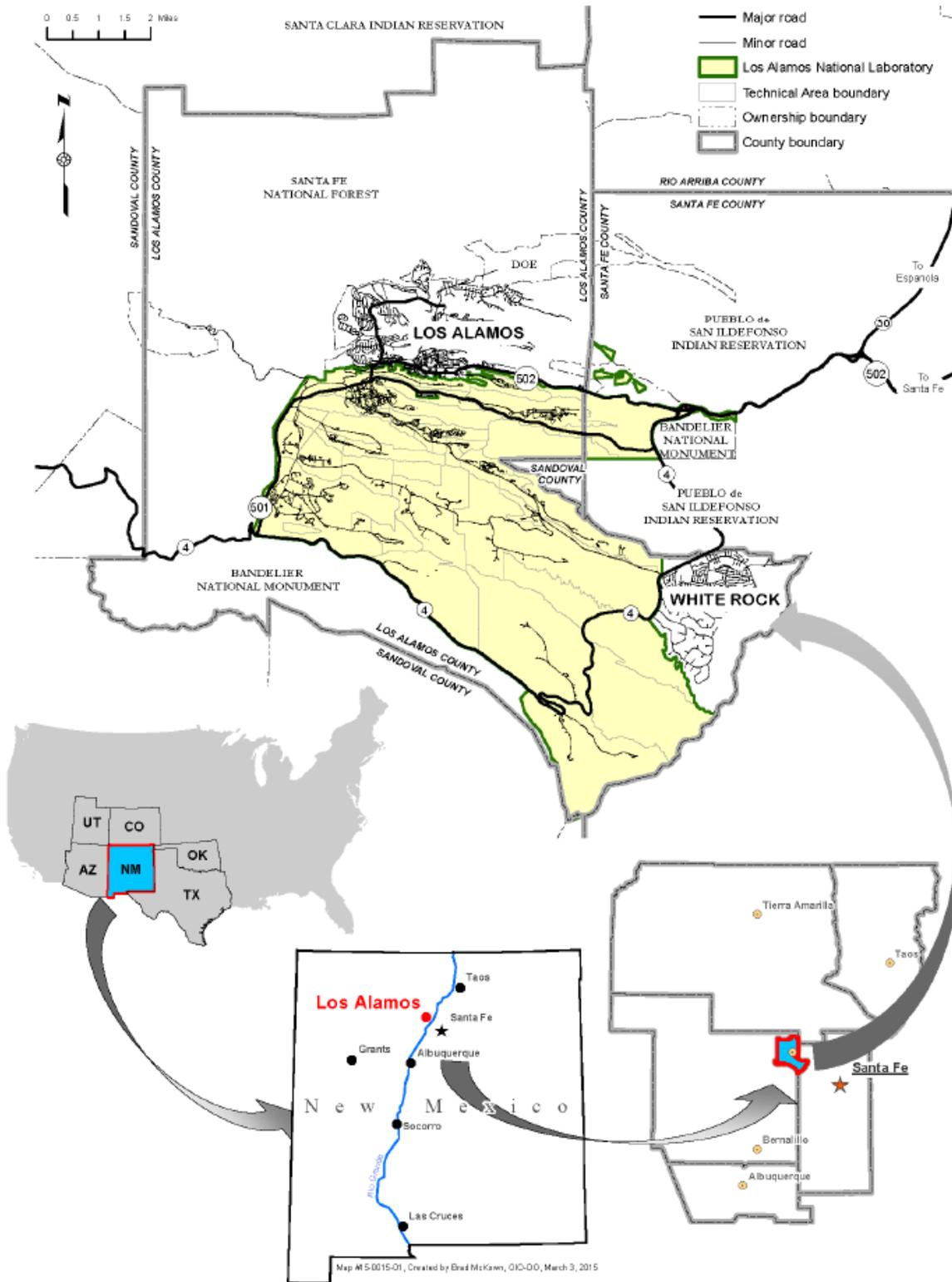
STORMWATER POLLUTION PREVENTION PLAN
TA-60 Roads and Grounds Facility, Sigma Mesa Staging Areas, and Asphalt
Batch Plant
Los Alamos National Laboratory

CERTIFICATION STATEMENT

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information contained therein. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information contained is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

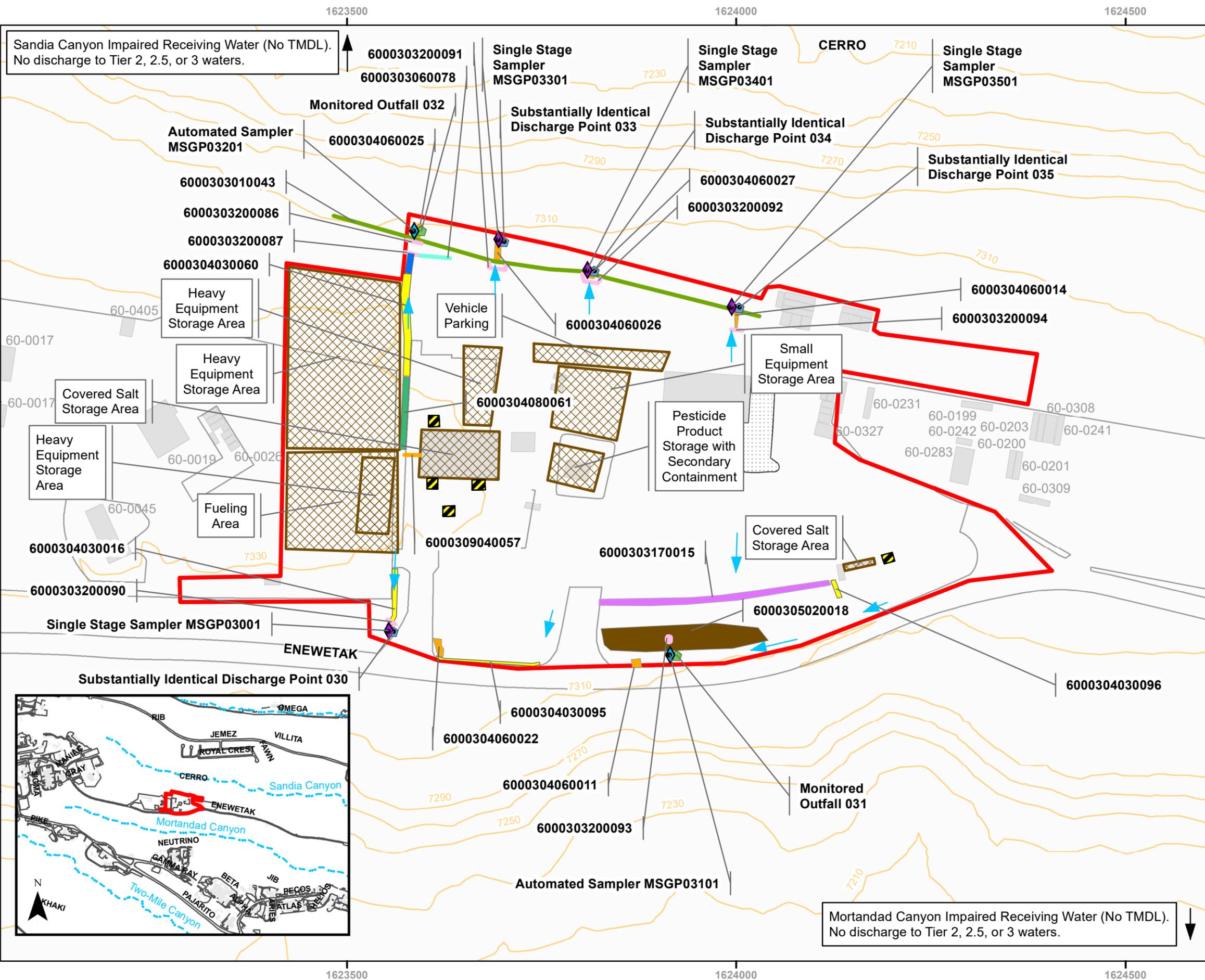
Signature David E. Trujillo Date 1-26-2023
David E. Trujillo
Operations Manager 2
Utilities and Institutional Operations, UI-OPS

FIGURE A: GENERAL LOCATION MAP



FIGURES B-1 TO B-4: FACILITY SITE MAPS

TA-60 ROADS AND GROUNDS WEST SITE MAP



- Automated Sampler
- Single Stage Samplers
- Monitored Outfall
- Substantially Identical Discharge Point
- Rock Check Dam
- Straw Wattle
- Trench Drain
- EnviroSoxx w/ MetalLoxx
- Earthen Berm
- Asphalt Berm
- Culvert
- Drainage
- Paved Roads
- 10 ft Contour
- Boundary of Industrial Activity
- Jersey Barrier
- Rip Rap
- Rock Channel/Swale
- Sediment Basin
- TRM-Lined Swale
- Industrial Activity Areas
- Loading/Unloading Areas
- LANL Structures
- Paved Parking
- Flow Direction

9.4 Acres, 65% Impervious Surface.
Note - No Critical Habitat Areas.

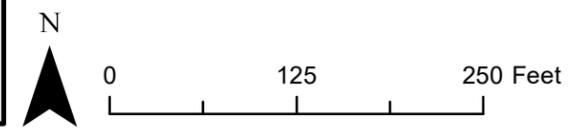
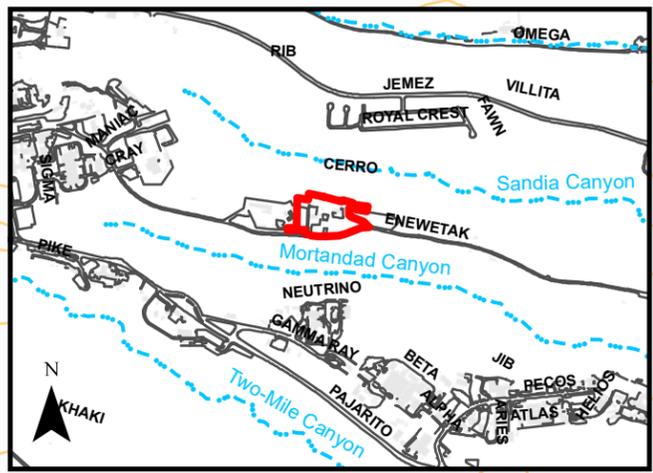
Map number: 16-0015-TA-60 Roads and Grounds West
Map created by: Ben Sutter, IPPO
Updated: January 9, 2023
Version 16

New Mexico State Plane Coordinate System Central Zone (3002)
North American Datum, 1983 (NAD 83)
US Survey Ft

DISCLAIMER: This map was created for work processes associated with the Multi-Sector General Permit. All other uses for this map should be confirmed with LANL EPC-CP staff.

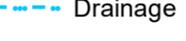
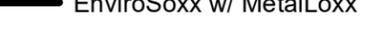
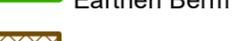
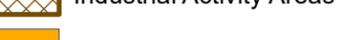
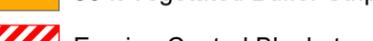
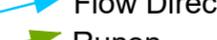
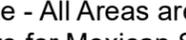
Sandia Canyon Impaired Receiving Water (No TMDL).
No discharge to Tier 2, 2.5, or 3 waters.

Mortandad Canyon Impaired Receiving Water (No TMDL).
No discharge to Tier 2, 2.5, or 3 waters.



TA-60 ROADS AND GROUNDS EAST SITE MAP

Legend

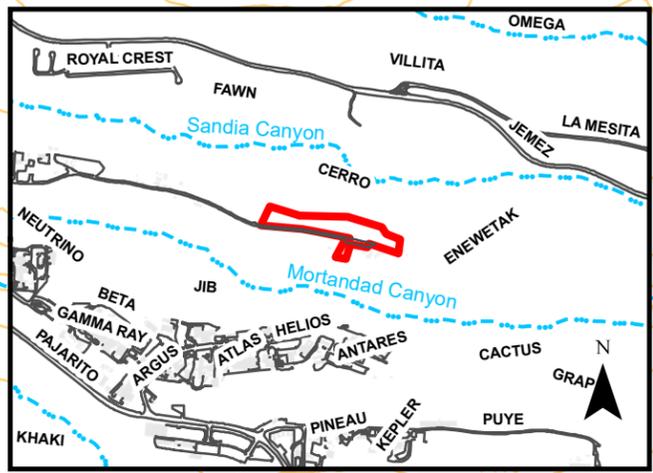
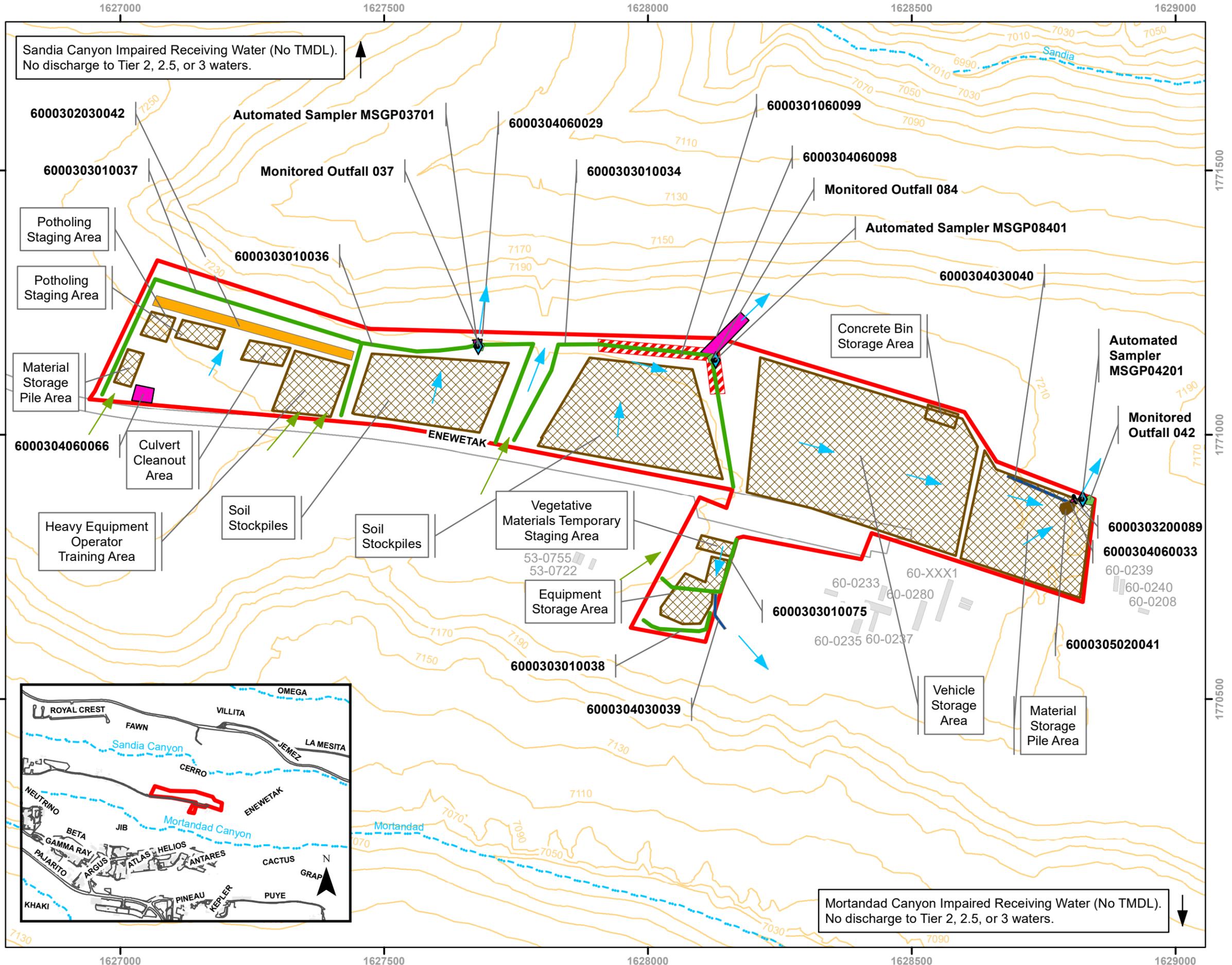
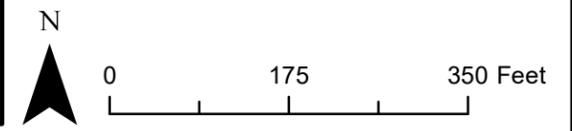
-  Single Stage Samplers
-  Automated Sampler
-  Monitored Outfall
-  Drainage
-  EnviroSoxx w/ MetalLoxx
-  Earthen Berm
-  Industrial Activity Areas
-  50 ft Vegetated Buffer Strip
-  Erosion Control Blanket
-  Rip Rap
-  Rock Channel/Swale
-  Sediment Basin
-  Boundary of Industrial Activity
-  Paved Parking Lot
-  Paved Roads
-  LANL Structures
-  10 ft Contour
-  Flow Direction
-  Runon

11.2 Acres, 10 % Impervious Surface.
Note - All Areas are within Developed Core for Mexican Spotted Owl Habitat.

Map number: 16-0015-TA-60 Roads and Grounds East
Map created by: Ben Sutter, IFPROG
Date: November 2, 2022
Version 16

New Mexico State Plane Coordinate System Central Zone (3002)
North American Datum, 1983 (NAD 83)
US Survey Ft

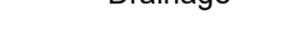
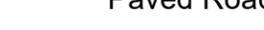
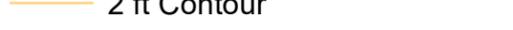
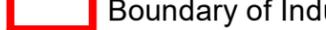
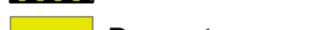
DISCLAIMER: This map was created for work processes associated with the Multi-Sector General Permit. All other uses for this map should be confirmed with LANL EPC-CP staff.



Sandia Canyon Impaired Receiving Water (No TMDL).
No discharge to Tier 2, 2.5, or 3 waters.

Mortandad Canyon Impaired Receiving Water (No TMDL).
No discharge to Tier 2, 2.5, or 3 waters.

TA-60 ASPHALT BATCH PLANT SITE MAP

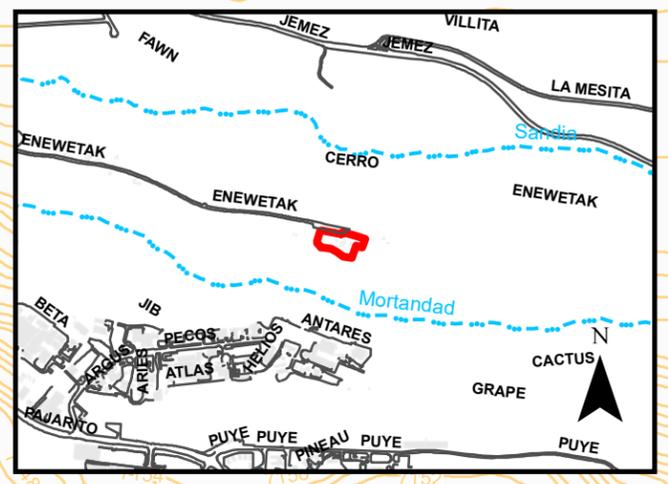
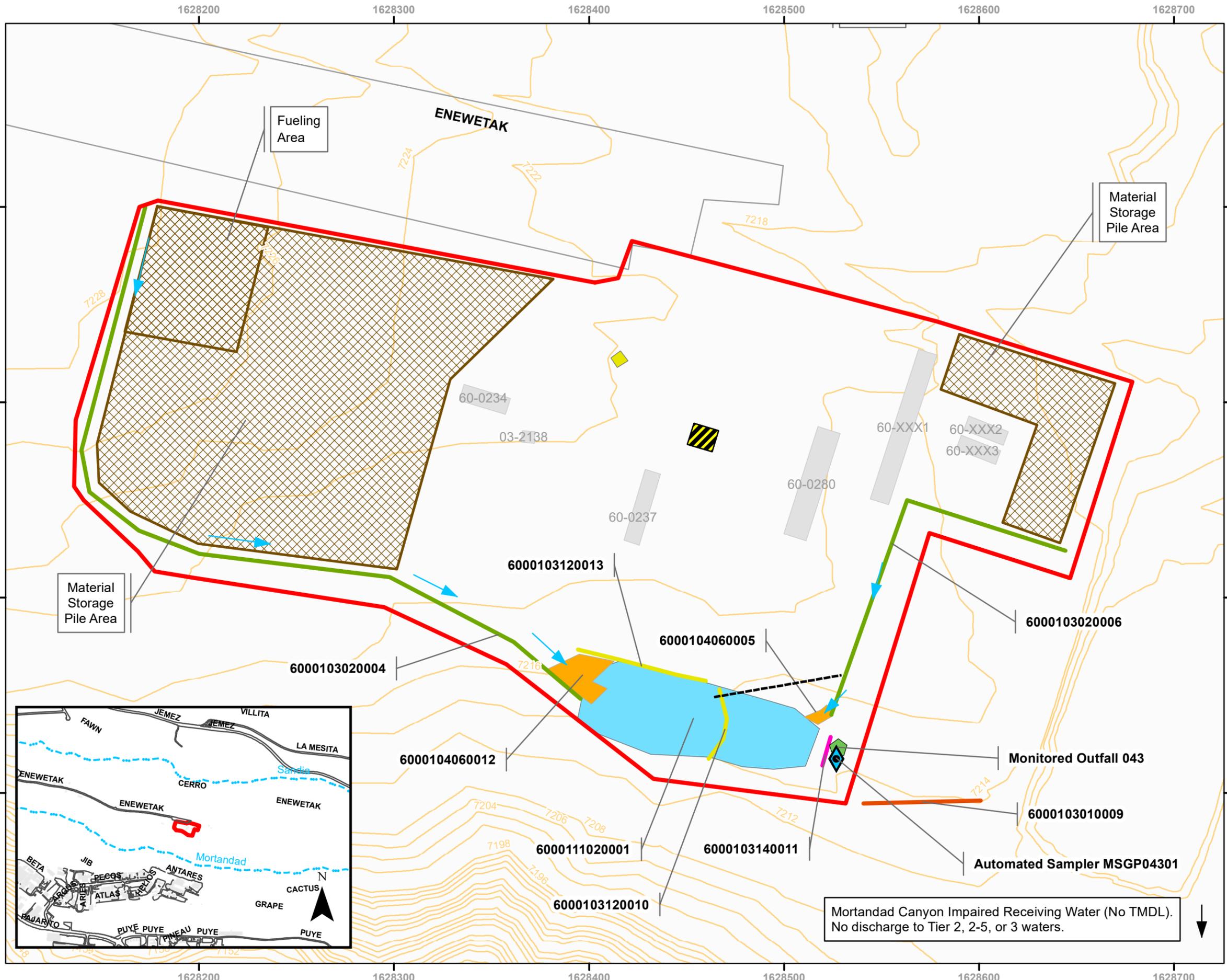
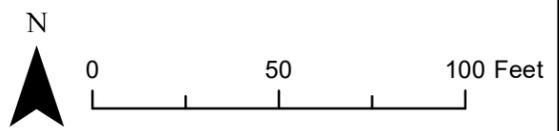
-  Automated Sampler
-  Monitored Outfall
-  Base Course Berm
-  Earthen Berm
-  Rock Berm
-  Rock Check Dam
-  Core Log
-  Drainage
-  Paved Roads
-  2 ft Contour
-  Boundary of Industrial Activity
-  Detention Pond
-  Rip Rap
-  Industrial Activity Areas
-  Loading/Unloading Areas
-  Dumpster
-  LANL Structures
-  Culvert
-  Flow Direction

2.3 Acres, 0% Impervious Surface.
 Note - All Areas are within Developed Core for Mexican Spotted Owl Habitat.

Map number: 16-0015-TA-60 Asphalt Batch Plant
 Map created by: Ben Sutter, IFPROG
 Date: September 9, 2022
 Version 8

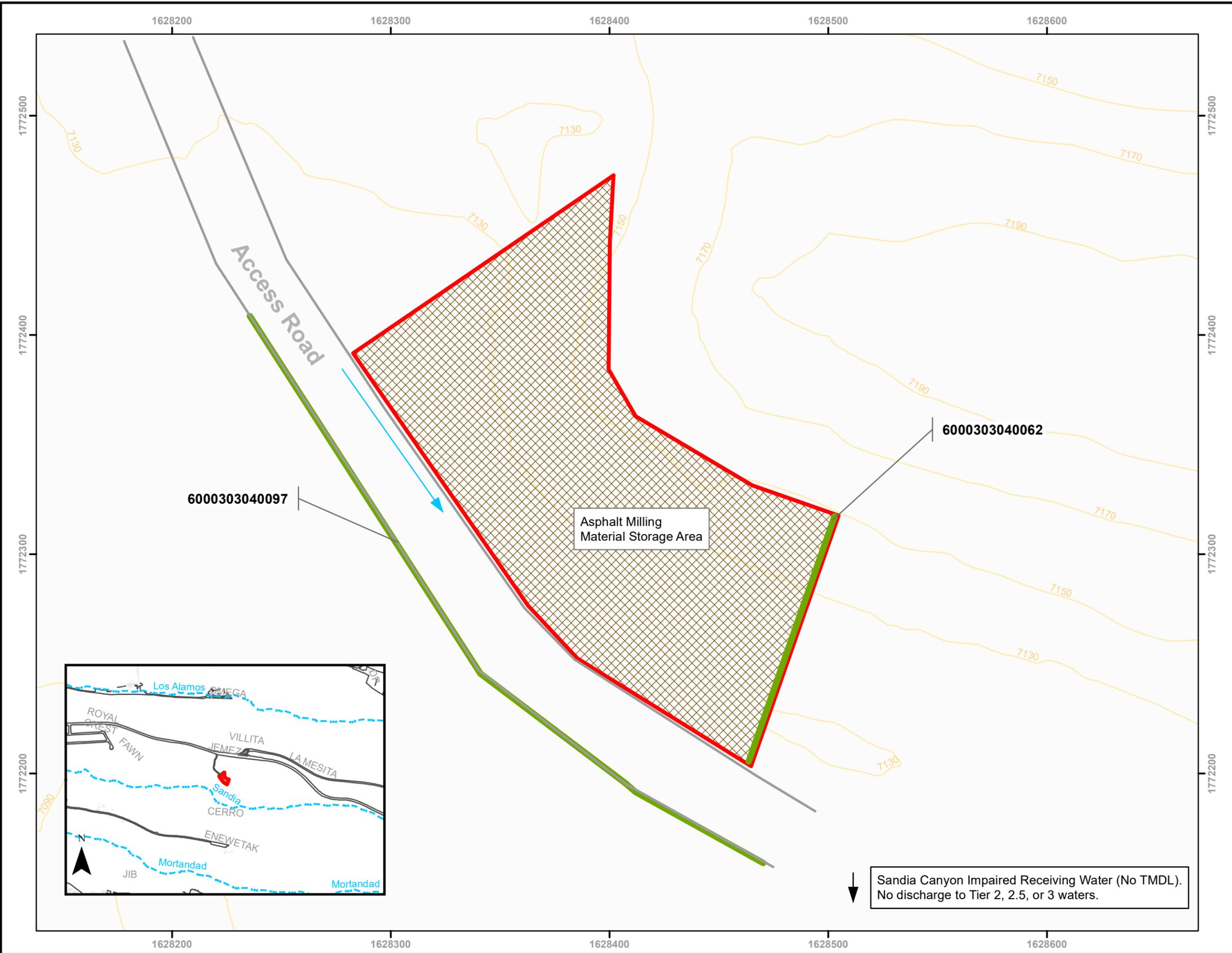
New Mexico State Plane Coordinate System Central Zone (3002)
 North American Datum, 1983 (NAD 83)
 US Survey Ft

DISCLAIMER: This map was created for work processes associated with the Multi-Sector General Permit. All other uses for this map should be confirmed with LANL EPC-CP staff.



Mortandad Canyon Impaired Receiving Water (No TMDL).
 No discharge to Tier 2, 2-5, or 3 waters.

**TA-61
ASPHALT MILLINGS STAGING AREA
SITE MAP**



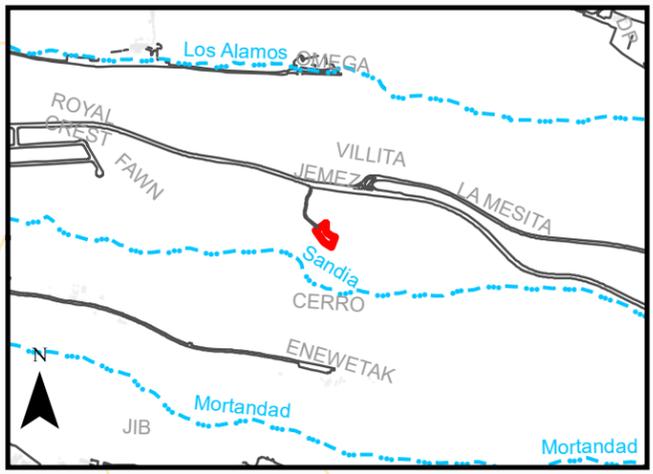
-  Asphalt Berm
-  Drainage
-  Boundary of Industrial Activity
-  Industrial Activity Areas
-  Flow Direction

0.58 Acres, 0% Impervious Surface.
Note - All Areas are within Developed Core for Mexican Spotted Owl Habitat.

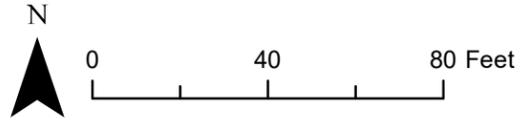
Map number: 16-0015-TA-61 Asphalt Millings Staging Area
Map created by: Ben Sutter, IFPROG
Date: January 3, 2023
Version 5

New Mexico State Plane Coordinate System Central Zone (3002)
North American Datum, 1983 (NAD 83)
US Survey Ft

DISCLAIMER: This map was created for work processes associated with the Multi-Sector General Permit. All other uses for this map should be confirmed with LANL EPC-CP staff.



↓ Sandia Canyon Impaired Receiving Water (No TMDL). No discharge to Tier 2, 2.5, or 3 waters.



FIGURES B-5 TO B-7: NEARBY RECEIVING WATERS

TA-60 Roads and Grounds West Receiving Waters Map

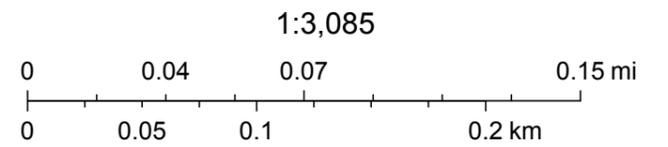


Mortandad Canyon

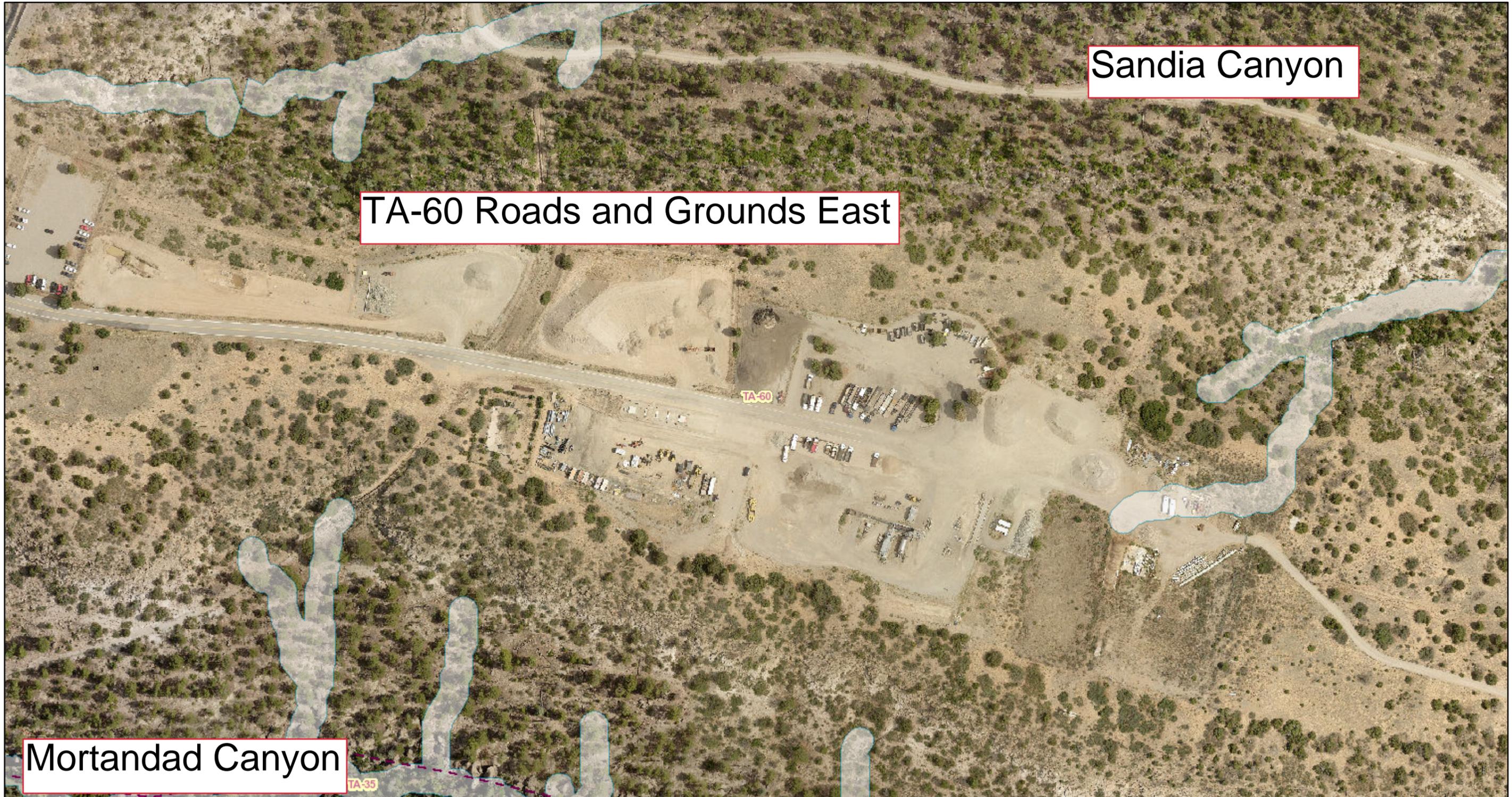
Sandia Canyon

Roads and Ground West

-  Watercourse
-  TA Boundary

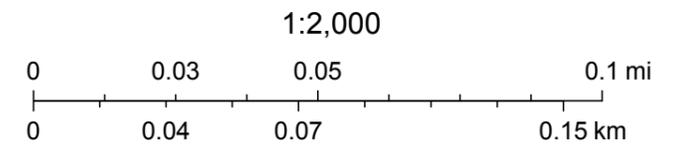


TA-60 Roads and Grounds East Receiving Waters Map



1/31/2022, 2:42:26 PM

- Buildings
- Watercourse
- TA Boundary



TA-61 Asphalt Millings Staging Area Receiving Waters Map



1/31/2022, 3:03:33 PM

-  Watercourse
-  TA Boundary

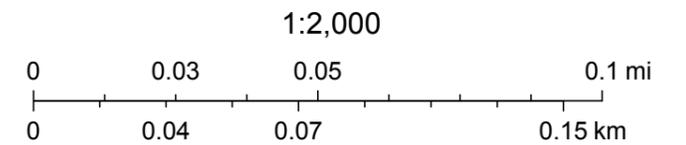
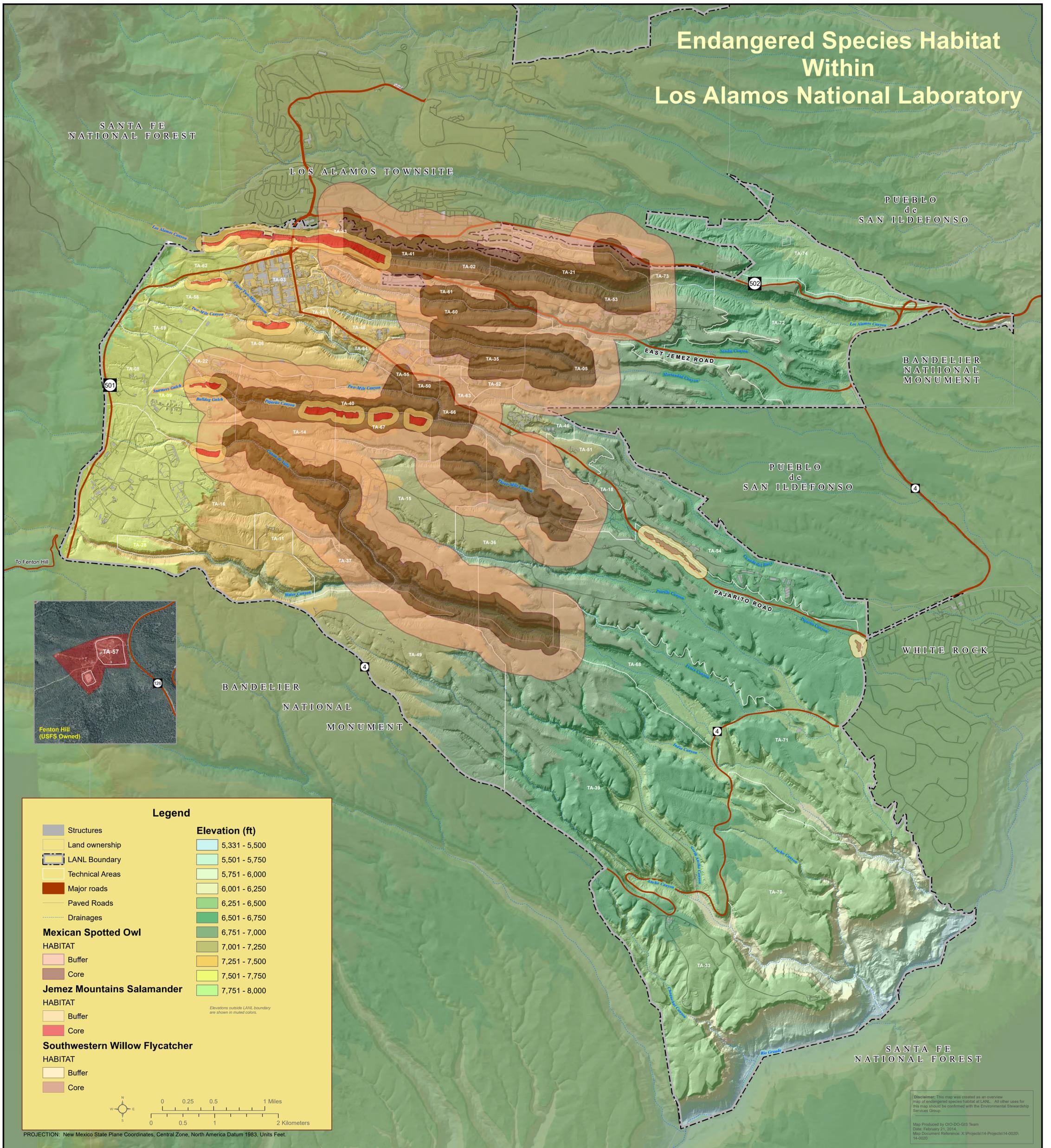


FIGURE B-8: LANL ENDANGERED SPECIES MAP

Endangered Species Habitat Within Los Alamos National Laboratory



Legend

| | |
|---------------------------------------|-----------------------|
| Structures | Elevation (ft) |
| Land ownership | 5,331 - 5,500 |
| LANL Boundary | 5,501 - 5,750 |
| Technical Areas | 5,751 - 6,000 |
| Major roads | 6,001 - 6,250 |
| Paved Roads | 6,251 - 6,500 |
| Drainages | 6,501 - 6,750 |
| Mexican Spotted Owl | 6,751 - 7,000 |
| HABITAT | 7,001 - 7,250 |
| Buffer | 7,251 - 7,500 |
| Core | 7,501 - 7,750 |
| Jemez Mountains Salamander | 7,751 - 8,000 |
| HABITAT | |
| Buffer | |
| Core | |
| Southwestern Willow Flycatcher | |
| HABITAT | |
| Buffer | |
| Core | |

Elevations outside LANL boundary are shown in muted colors.

0 0.25 0.5 1 Miles
0 0.5 1 2 Kilometers

PROJECTION: New Mexico State Plane Coordinates, Central Zone, North America Datum 1983, Units Feet.

Disclaimer: This map was created as an overview map of endangered species habitat at LANL. All other uses for this map should be confirmed with the Environmental Stewardship Services Group.
Map Produced by OIO-DO-GIS Team
Date: February 21, 2014
Map Document Reference: X:\Project\14-0020\14-0020

ATTACHMENT 1: NOTICE OF INTENT, SUPPORTING DOCUMENTATION, AND UPDATES

From: no-reply@epacdx.net
Subject: [EXTERNAL] EPA NeT MSGP Change Effective LOS ALAMOS NATIONAL LABORATORY, NPDES ID: NMR050013
Date: Friday, October 28, 2022 4:48:43 PM

2022-10-28

Dear NeT User,

The change requested to the coverage below has been accepted and is now effective.

| NPDES ID | Form Type | Coverage Status | Operator | Facility Name |
|-----------|------------|-----------------|-----------------------------|--------------------------------|
| NMR050013 | Change NOI | Active | Triad National Security LLC | LOS ALAMOS NATIONAL LABORATORY |

A copy of the submission can be found [here](#).

If you have questions about this email or about the NPDES Electronic Reporting Tool (NeT), please refer to the [NeT Support](#) or e-mail NPDESereporting@epa.gov for assistance.

This is an automated notification; please do not reply to this email.



Permit Information

Master Permit Number: NMR050000

NPDES ID: NMR050013

Eligibility Information

State/territory where your facility is discharging: NM

Does your facility discharge to federally recognized Indian Country lands? No

Are you a "Federal Operator" as defined in Appendix A (https://www.epa.gov/sites/production/files/2021-01/documents/2021_msgp_-_appendix_a_-_definitions.pdf)?

Yes

Which type of form would you like to submit? Notice of Intent (NOI)

By indicating "Yes" below, I confirm that I understand that the MSGP only authorizes the stormwater discharges in Part 1.1.2 and the allowable non-stormwater discharges listed in Part 1.2.2. Any discharges not expressly authorized in this permit cannot become authorized or shielded from liability under CWA section 402(k) by disclosure to EPA, state, or local authorities after issuance of this permit via any means, including the Notice of Intent (NOI) to be covered by the permit, the Stormwater Pollution Prevention Plan (SWPPP), during an inspection, etc. If any discharges requiring NPDES permit coverage other than the allowable stormwater and non-stormwater discharges listed in Parts 1.2.1. and 1.2.2. will be discharged, they must be covered under another NPDES permit.

Yes

Are you a new discharger or a new source as defined in Appendix A (https://www.epa.gov/sites/production/files/2021-01/documents/2021_msgp_-_appendix_a_-_definitions.pdf)?

No

➔ Have stormwater discharges from your facility been covered previously under an NPDES permit? Yes

➔ If yes, provide your most current NPDES ID (i.e., permit tracking number) if you had coverage under EPA's MSGP or the NPDES permit number if you had coverage under an EPA individual permit:

NMR050013

➔ Are you discharging to any waters of the U.S. that are designated by the state or tribal authority under its antidegradation policy as a Tier 3 water (Outstanding National Resource water)? (See Appendix L (https://www.epa.gov/sites/production/files/2021-01/documents/2021_msgp_-_appendix_l_-_list_of_tier_3_tier_2_and_tier_2.5_waters.pdf))

No

Do you anticipate the discharge of groundwater or spring water from your facility? No

What is the legal name of the Operator as defined in Appendix A (https://www.epa.gov/sites/production/files/2021-01/documents/2021_msgp_-_appendix_a_-_definitions.pdf)?

Triad National Security LLC

What is the name of your facility or activity as defined in Appendix A (https://www.epa.gov/sites/production/files/2021-01/documents/2021_msgp_-_appendix_a_-_definitions.pdf)?

LOS ALAMOS NATIONAL LABORATORY

Operator Information

Operator Information

Operator Name: Triad National Security LLC

Operator Mailing Address

Address Line 1: PO Box 1663

Address Line 2: MS K490

ZIP/Postal Code: 87545

County or Similar Division: Los Alamos

City: Los Alamos

State: NM

Operator Point of Contact Information

First Name Middle Initial Last Name: TERRILL . LEMKE

Title: Environmental Manager

Phone: 5056652397

Ext.:

Email: tlemke@lanl.gov

NOI Preparer Information

This NOI is being prepared by someone other than the certifier.

First Name Middle Initial Last Name: Holly L Wheeler

Organization: Triad National Security LLC

Phone: 505-667-1312

Ext.:

Email: hbenson@lanl.gov

Facility Information

Facility Information

Facility Name: LOS ALAMOS NATIONAL LABORATORY

Facility Address

Address Line 1: PO BOX 1663

Address Line 2: MS K490

ZIP/Postal Code: 87545

County or Similar Division: Los Alamos

City: LOS ALAMOS

State: NM

Latitude/Longitude for the Facility

Latitude/Longitude: 35.872777°N, 106.321127°W

Latitude/Longitude Data Source: GIS

Horizontal Reference Datum: WGS 84

General Facility Information

What is the ownership type of the facility? Federal Facility (U.S. Government)

Estimated area of industrial activity at your facility exposed to stormwater (rounded to the nearest quarter acre): 38.75

Is your facility presently inactive and unstaffed? No

Exception for Inactive and Unstaffed Facilities: The requirement for indicator monitoring, impaired waters monitoring, and/or benchmark monitoring does not apply at a facility that is inactive and unstaffed, as long as there are no industrial materials or activities exposed to stormwater.

If circumstances change during the permit term that affect your qualifications for this exception to monitoring requirements (i.e. industrial materials or activities exposure to stormwater or your facility's active/inactive and staffed/unstaffed status) you must submit a NOI notifying EPA of the change in circumstances.

Sector-Specific Information

Primary Sector: P

Primary Subsector: P1

Primary SIC Code: 4212

Co-Located Sectors:

Co-Located Sector: D

Co-Located Subsector: D1

Co-Located SIC Code: 2951

Co-Located Sector: N

Co-Located Subsector: N2

Co-Located SIC Code: 5093

Co-Located Sector: AA

Co-Located Subsector: AA1

Co-Located SIC Code: 3499

Discharge Information

By indicating "Yes" below, I confirm that I understand that the MSGP only authorizes the stormwater discharges in Part 1.2.1 and the allowable non-stormwater discharges listed in Part 1.2.2. Any discharges not expressly authorized in this permit cannot become authorized or shielded from liability under CWA section 402(k) by disclosure to EPA, state, or local authorities after issuance of this permit via any means, including the Notice of Intent (NOI) to be covered by the permit, the Stormwater Pollution Prevention Plan (SWPPP), during an inspection, etc. If any discharges requiring NPDES permit coverage other than the authorized stormwater and non-stormwater discharges listed in Parts 1.2.1 and 1.2.2 will be discharged, they must be covered under another NPDES permit.

Yes

Other Discharge Information

Do you anticipate the discharge of groundwater or spring water from your facility? No

Does your facility discharge into a Municipal Separate Sewer System (MS4)? No

Receiving Waters Information

List all of the stormwater discharge points from your facility.

Discharge Point 023: TA-60-1 Heavy Equipment Yard SIO to 022

Applicable Sectors

Select the Sectors/Subsector(s) that apply to this discharge point.

| | Sector | Subsector | SIC/Activity Code |
|-------------------------------------|---|---|-------------------|
| <input type="checkbox"/> | D - ASPHALT PAVING AND ROOFING MATERIALS AND LUBRICANTS | D1 - Asphalt Paving and Roofing Materials | 2951 |
| <input type="checkbox"/> | N - SCRAP RECYCLING FACILITIES | N2 - Source-separated Recycling Facility | 5093 |
| <input checked="" type="checkbox"/> | P - LAND TRANSPORTATION AND WAREHOUSING | P1 - Railroad Transportation; Local and Highway Passenger Transportation; Motor Freight Transportation and Warehousing; United States Postal Service; Petroleum Bulk Stations and Terminals | 4212 |
| <input checked="" type="checkbox"/> | AA - FABRICATED METAL PRODUCTS | AA1 - Fabricated Metal Products, Except Machinery and Transportation Equipment, and Coating, Engraving, and Allied Services; Jewelry, Silverware, and Plated Ware | 3499 |

Federal Effluent Limitation Guidelines:

Identify the Effluent Limitation Guideline(s) that apply to your stormwater discharges.

There are no guidelines associated with the sector(s) selected in this discharge point.

Are you requesting permit coverage for any stormwater discharges subject to effluent limitation guidelines? No

Latitude/Longitude: 35.873193°N, 106.313116°W

This discharge point is *Substantially Identical* to an existing discharge point.

➔ Substantially Identical to Discharge Point ID: 022

Receiving Water

GNIS Name:

Waterbody Name:

Listed Water ID:

SANDIA CANYON (SIGMA CANYON TO NPDES OUTFALL 001)

NM-9000.A_047

Is this receiving water saltwater or freshwater? Freshwater

Is this receiving water designated by the state or tribal authority under its antidegradation policy as a Tier 2 (or Tier 2.5) water (water quality exceeds levels necessary to support propagation of fish, shellfish, and wildlife and recreation in and on the water)?

No

Will you have stormwater discharges from paved surfaces that will be initially sealed or re-sealed with coal-tar sealcoat where industrial activities are located during coverage under this permit?

No

Benchmark Monitoring

Are you subject to benchmark monitoring requirements for a hardness-dependent metal? Yes

➔ What is the hardness of your receiving water(s)? 61

(mg/L)

Impaired Waters Monitoring

NOTE: The information automatically populated in this section may be outdated and inaccurate (i.e. determining if the receiving water is listed as impaired on the 303(d) list, the cause(s) of the impairment if impaired, the pollutant(s)). It is recommended that you consult with your state's guidance for discharges into impaired waters to determine whether the receiving water is listed as impaired and, if so, the correct causes for the impairment and pollutant(s), and update the information accordingly.

Is the receiving water listed as impaired on the 303(d) list? Yes

| Cause of Impairment Group | Pollutant | Units | Monitoring Required? | TMDL Completed? |
|----------------------------------|----------------------------------|----------------------|----------------------|-----------------|
| METALS (OTHER THAN MERCURY) | Aluminum, total recoverable | Micrograms per Liter | <u>Yes</u> | <u>No</u> |
| POLYCHLORINATED BIPHENYLS (PCBS) | Polychlorinated biphenyls [PCBs] | Milligrams per Liter | <u>Yes</u> | <u>No</u> |
| METALS (OTHER THAN MERCURY) | Copper, dissolved [as Cu] | Micrograms per Liter | <u>Yes</u> | <u>No</u> |

Discharge Point 024: TA-60-1 Heavy Equipment Yard SIO to 022

Applicable Sectors

Select the Sectors/Subsector(s) that apply to this discharge point.

| | Sector | Subsector | SIC/Activity Code |
|-------------------------------------|---|---|-------------------|
| <input type="checkbox"/> | D - ASPHALT PAVING AND ROOFING MATERIALS AND LUBRICANTS | D1 - Asphalt Paving and Roofing Materials | 2951 |
| <input type="checkbox"/> | N - SCRAP RECYCLING FACILITIES | N2 - Source-separated Recycling Facility | 5093 |
| <input checked="" type="checkbox"/> | P - LAND TRANSPORTATION AND WAREHOUSING | P1 - Railroad Transportation; Local and Highway Passenger Transportation; Motor Freight Transportation and Warehousing; United States Postal Service; Petroleum Bulk Stations and Terminals | 4212 |
| <input checked="" type="checkbox"/> | AA - FABRICATED METAL PRODUCTS | AA1 - Fabricated Metal Products, Except Machinery and Transportation Equipment, and Coating, Engraving, and Allied Services; Jewelry, Silverware, and Plated Ware | 3499 |

Federal Effluent Limitation Guidelines:

Identify the Effluent Limitation Guideline(s) that apply to your stormwater discharges.

There are no guidelines associated with the sector(s) selected in this discharge point.

Are you requesting permit coverage for any stormwater discharges subject to effluent limitation guidelines? No

Latitude/Longitude: 35.873046°N, 106.315069°W

This discharge point is **Substantially Identical** to an existing discharge point.

➔ Substantially Identical to Discharge Point ID: 022

Receiving Water

GNIS Name:

Waterbody Name:

Listed Water ID:

SANDIA CANYON (SIGMA CANYON TO
NPDES OUTFALL 001)

NM-9000.A_047

Is this receiving water saltwater or freshwater? Freshwater

Is this receiving water designated by the state or tribal authority under its antidegradation policy as a Tier 2 (or Tier 2.5) water (water quality exceeds levels necessary to support propagation of fish, shellfish, and wildlife and recreation in and on the water)?

No

Will you have stormwater discharges from paved surfaces that will be initially sealed or re-sealed with coal-tar sealcoat where industrial activities are located during coverage under this permit?

No

Benchmark Monitoring

Are you subject to benchmark monitoring requirements for a hardness-dependent metal? Yes

➔ What is the hardness of your receiving water(s)? 61

(mg/L)

Impaired Waters Monitoring

NOTE: The information automatically populated in this section may be outdated and inaccurate (i.e. determining if the receiving water is listed as impaired on the 303(d) list, the cause(s) of the impairment if impaired, the pollutant(s)). It is recommended that you consult with your state's guidance for discharges into impaired waters to determine whether the receiving water is listed as impaired and, if so, the correct causes for the impairment and pollutant(s), and update the information accordingly.

Is the receiving water listed as impaired on the 303(d) list? Yes

| Cause of Impairment Group | Pollutant | Units | Monitoring Required? | TMDL Completed? |
|----------------------------------|----------------------------------|----------------------|----------------------|-----------------|
| POLYCHLORINATED BIPHENYLS (PCBS) | Polychlorinated biphenyls [PCBs] | Milligrams per Liter | <u>Yes</u> | <u>No</u> |
| METALS (OTHER THAN MERCURY) | Aluminum, total recoverable | Micrograms per Liter | <u>Yes</u> | <u>No</u> |
| METALS (OTHER THAN MERCURY) | Copper, dissolved [as Cu] | Micrograms per Liter | <u>Yes</u> | <u>No</u> |

Discharge Point 032: TA-60 Roads and Grounds

Applicable Sectors

Select the Sectors/Subsector(s) that apply to this discharge point.

| | Sector | Subsector | SIC/Activity Code |
|-------------------------------------|---|---|-------------------|
| <input type="checkbox"/> | D - ASPHALT PAVING AND ROOFING MATERIALS AND LUBRICANTS | D1 - Asphalt Paving and Roofing Materials | 2951 |
| <input type="checkbox"/> | N - SCRAP RECYCLING FACILITIES | N2 - Source-separated Recycling Facility | 5093 |
| <input checked="" type="checkbox"/> | P - LAND TRANSPORTATION AND WAREHOUSING | P1 - Railroad Transportation; Local and Highway Passenger Transportation; Motor Freight Transportation and Warehousing; United States Postal Service; Petroleum Bulk Stations and Terminals | 4212 |
| <input type="checkbox"/> | AA - FABRICATED METAL PRODUCTS | AA1 - Fabricated Metal Products, Except Machinery and Transportation Equipment, and Coating, Engraving, and Allied Services; Jewelry, Silverware, and Plated Ware | 3499 |

Federal Effluent Limitation Guidelines:

Identify the Effluent Limitation Guideline(s) that apply to your stormwater discharges.

There are no guidelines associated with the sector(s) selected in this discharge point.

Are you requesting permit coverage for any stormwater discharges subject to effluent limitation guidelines? No

Latitude/Longitude: 35.870741°N, 106.306812°W

This discharge point is *Substantially Identical* to an existing discharge point.

Receiving Water

GNIS Name:

Waterbody Name:

Listed Water ID:

SANDIA CANYON (SIGMA CANYON TO
NPDES OUTFALL 001)

NM-9000.A_047

Is this receiving water saltwater or freshwater? Freshwater

Is this receiving water designated by the state or tribal authority under its antidegradation policy as a Tier 2 (or Tier 2.5) water (water quality exceeds levels necessary to support propagation of fish, shellfish, and wildlife and recreation in and on the water)?

No

Will you have stormwater discharges from paved surfaces that will be initially sealed or re-sealed with coal-tar sealcoat where industrial activities are located during coverage under this permit?

No

Benchmark Monitoring

Are you subject to benchmark monitoring requirements for a hardness-dependent metal? No

Impaired Waters Monitoring

NOTE: The information automatically populated in this section may be outdated and inaccurate (i.e. determining if the receiving water is listed as impaired on the 303(d) list, the cause(s) of the impairment if impaired, the pollutant(s)). It is recommended that you consult with your state's guidance for discharges into impaired waters to determine whether the receiving water is listed as impaired and, if so, the correct causes for the impairment and pollutant(s), and update the information accordingly.

Is the receiving water listed as impaired on the 303(d) list? Yes

| Cause of Impairment Group | Pollutant | Units | Monitoring Required? | TMDL Completed? |
|----------------------------------|----------------------------------|----------------------|----------------------|-----------------|
| POLYCHLORINATED BIPHENYLS (PCBS) | Polychlorinated biphenyls [PCBs] | Milligrams per Liter | <u>Yes</u> | <u>No</u> |
| METALS (OTHER THAN MERCURY) | Aluminum, total recoverable | Micrograms per Liter | <u>Yes</u> | <u>No</u> |
| METALS (OTHER THAN MERCURY) | Copper, dissolved [as Cu] | Micrograms per Liter | <u>Yes</u> | <u>No</u> |

Discharge Point 034: TA-60 Roads and Grounds SIO to 032

Applicable Sectors

Select the Sectors/Subsector(s) that apply to this discharge point.

| | Sector | Subsector | SIC/Activity Code |
|-------------------------------------|---|---|-------------------|
| <input type="checkbox"/> | D - ASPHALT PAVING AND ROOFING MATERIALS AND LUBRICANTS | D1 - Asphalt Paving and Roofing Materials | 2951 |
| <input type="checkbox"/> | N - SCRAP RECYCLING FACILITIES | N2 - Source-separated Recycling Facility | 5093 |
| <input checked="" type="checkbox"/> | P - LAND TRANSPORTATION AND WAREHOUSING | P1 - Railroad Transportation; Local and Highway Passenger Transportation; Motor Freight Transportation and Warehousing; United States Postal Service; Petroleum Bulk Stations and Terminals | 4212 |
| <input type="checkbox"/> | AA - FABRICATED METAL PRODUCTS | AA1 - Fabricated Metal Products, Except Machinery and Transportation Equipment, and Coating, Engraving, and Allied Services; Jewelry, Silverware, and Plated Ware | 3499 |

Federal Effluent Limitation Guidelines:

Identify the Effluent Limitation Guideline(s) that apply to your stormwater discharges.

There are no guidelines associated with the sector(s) selected in this discharge point.

Are you requesting permit coverage for any stormwater discharges subject to effluent limitation guidelines? No

Latitude/Longitude: 35.870603°N, 106.306055°W

This discharge point is *Substantially Identical* to an existing discharge point.

➔ Substantially Identical to Discharge Point ID: 032

Receiving Water

GNIS Name:

Waterbody Name:

Listed Water ID:

Is this receiving water saltwater or freshwater? Freshwater

Is this receiving water designated by the state or tribal authority under its antidegradation policy as a Tier 2 (or Tier 2.5) water (water quality exceeds levels necessary to support propagation of fish, shellfish, and wildlife and recreation in and on the water)?

No

Will you have stormwater discharges from paved surfaces that will be initially sealed or re-sealed with coal-tar sealcoat where industrial activities are located during coverage under this permit?

No

Benchmark Monitoring

Are you subject to benchmark monitoring requirements for a hardness-dependent metal? No

Impaired Waters Monitoring

NOTE: The information automatically populated in this section may be outdated and inaccurate (i.e. determining if the receiving water is listed as impaired on the 303(d) list, the cause(s) of the impairment if impaired, the pollutant(s)). It is recommended that you consult with your state's guidance for discharges into impaired waters to determine whether the receiving water is listed as impaired and, if so, the correct causes for the impairment and pollutant(s), and update the information accordingly.

Is the receiving water listed as impaired on the 303(d) list? Yes

| Cause of Impairment Group | Pollutant | Units | Monitoring Required? | TMDL Completed? |
|----------------------------------|----------------------------------|----------------------|----------------------|-----------------|
| POLYCHLORINATED BIPHENYLS (PCBS) | Polychlorinated biphenyls [PCBs] | Milligrams per Liter | <u>Yes</u> | <u>No</u> |
| METALS (OTHER THAN MERCURY) | Aluminum, total recoverable | Micrograms per Liter | <u>Yes</u> | <u>No</u> |
| METALS (OTHER THAN MERCURY) | Copper, dissolved [as Cu] | Micrograms per Liter | <u>Yes</u> | <u>No</u> |

Discharge Point 028: TA-60-2 Warehouse SIO to 026

Applicable Sectors

Select the Sectors/Subsector(s) that apply to this discharge point.

| | Sector | Subsector | SIC/Activity Code |
|-------------------------------------|---|---|-------------------|
| <input type="checkbox"/> | D - ASPHALT PAVING AND ROOFING MATERIALS AND LUBRICANTS | D1 - Asphalt Paving and Roofing Materials | 2951 |
| <input type="checkbox"/> | N - SCRAP RECYCLING FACILITIES | N2 - Source-separated Recycling Facility | 5093 |
| <input checked="" type="checkbox"/> | P - LAND TRANSPORTATION AND WAREHOUSING | P1 - Railroad Transportation; Local and Highway Passenger Transportation; Motor Freight | 4212 |

| | | | |
|--------------------------|--------------------------------|---|------|
| | WAREHOUSING | Transportation and Warehousing; United States Postal Service; Petroleum Bulk Stations and Terminals | |
| <input type="checkbox"/> | AA - FABRICATED METAL PRODUCTS | AA1 - Fabricated Metal Products, Except Machinery and Transportation Equipment, and Coating, Engraving, and Allied Services; Jewelry, Silverware, and Plated Ware | 3499 |

Federal Effluent Limitation Guidelines:

Identify the Effluent Limitation Guideline(s) that apply to your stormwater discharges.

There are no guidelines associated with the sector(s) selected in this discharge point.

Are you requesting permit coverage for any stormwater discharges subject to effluent limitation guidelines? No

Latitude/Longitude: 35.872505°N, 106.313542°W

This discharge point is *Substantially Identical* to an existing discharge point.

➔ Substantially Identical to Discharge Point ID: 026

Receiving Water

GNIS Name:

Waterbody Name:

Listed Water ID:

SANDIA CANYON (SIGMA CANYON TO
NPDES OUTFALL 001)

NM-9000.A_047

Is this receiving water saltwater or freshwater? Freshwater

Is this receiving water designated by the state or tribal authority under its antidegradation policy as a Tier 2 (or Tier 2.5) water (water quality exceeds levels necessary to support propagation of fish, shellfish, and wildlife and recreation in and on the water)?

No

Will you have stormwater discharges from paved surfaces that will be initially sealed or re-sealed with coal-tar sealcoat where industrial activities are located during coverage under this permit?

No

Benchmark Monitoring

Are you subject to benchmark monitoring requirements for a hardness-dependent metal? No

Impaired Waters Monitoring

NOTE: The information automatically populated in this section may be outdated and inaccurate (i.e. determining if the receiving water is listed as impaired on the 303(d) list, the cause(s) of the impairment if impaired, the pollutant(s)). It is recommended that you consult with your state's guidance for discharges into impaired waters to determine whether the receiving water is listed as impaired and, if so, the correct causes for the impairment and pollutant(s), and update the information accordingly.

Is the receiving water listed as impaired on the 303(d) list? Yes

| Cause of Impairment Group | Pollutant | Units | Monitoring Required? | TMDL Completed? |
|----------------------------------|----------------------------------|----------------------|----------------------|-----------------|
| POLYCHLORINATED BIPHENYLS (PCBS) | Polychlorinated biphenyls [PCBs] | Milligrams per Liter | <u>Yes</u> | <u>No</u> |
| METALS (OTHER THAN MERCURY) | Aluminum, total recoverable | Micrograms per Liter | <u>Yes</u> | <u>No</u> |

| | | | | |
|-----------------------------|---------------------------|----------------------|------------|-----------|
| METALS (OTHER THAN MERCURY) | Copper, dissolved [as Cu] | Micrograms per Liter | <u>Yes</u> | <u>No</u> |
|-----------------------------|---------------------------|----------------------|------------|-----------|

Discharge Point 035: TA-60 Roads and Grounds SIO to 032

Applicable Sectors

Select the Sectors/Subsector(s) that apply to this discharge point.

| | Sector | Subsector | SIC/Activity Code |
|-------------------------------------|---|---|-------------------|
| <input type="checkbox"/> | D - ASPHALT PAVING AND ROOFING MATERIALS AND LUBRICANTS | D1 - Asphalt Paving and Roofing Materials | 2951 |
| <input type="checkbox"/> | N - SCRAP RECYCLING FACILITIES | N2 - Source-separated Recycling Facility | 5093 |
| <input checked="" type="checkbox"/> | P - LAND TRANSPORTATION AND WAREHOUSING | P1 - Railroad Transportation; Local and Highway Passenger Transportation; Motor Freight Transportation and Warehousing; United States Postal Service; Petroleum Bulk Stations and Terminals | 4212 |
| <input type="checkbox"/> | AA - FABRICATED METAL PRODUCTS | AA1 - Fabricated Metal Products, Except Machinery and Transportation Equipment, and Coating, Engraving, and Allied Services; Jewelry, Silverware, and Plated Ware | 3499 |

Federal Effluent Limitation Guidelines:

Identify the Effluent Limitation Guideline(s) that apply to your stormwater discharges.

There are no guidelines associated with the sector(s) selected in this discharge point.

Are you requesting permit coverage for any stormwater discharges subject to effluent limitation guidelines? No

Latitude/Longitude: 35.870474°N, 106.305432°W

This discharge point is *Substantially Identical* to an existing discharge point.

➔ Substantially Identical to Discharge Point ID: 032

Receiving Water

GNIS Name:

Waterbody Name:

SANDIA CANYON (SIGMA CANYON TO
NPDES OUTFALL 001)

Listed Water ID:

NM-9000.A_047

Is this receiving water saltwater or freshwater? Freshwater

Is this receiving water designated by the state or tribal authority under its antidegradation policy as a Tier 2 (or Tier 2.5) water (water quality exceeds levels necessary to support propagation of fish, shellfish, and wildlife and recreation in and on the water)?

No

Will you have stormwater discharges from paved surfaces that will be initially sealed or re-sealed with coal-tar sealcoat where industrial activities are located during coverage under this permit?

No

Benchmark Monitoring

Are you subject to benchmark monitoring requirements for a hardness-dependent metal? No

Impaired Waters Monitoring

NOTE: The information automatically populated in this section may be outdated and inaccurate (i.e. determining if the receiving water is listed as impaired on the 303(d) list, the cause(s) of the impairment if impaired, the pollutant(s)). It is recommended that you consult with your state's guidance for discharges into impaired waters to determine whether the receiving water is listed as impaired and, if so, the correct causes for the impairment and pollutant(s), and update the information accordingly.

Is the receiving water listed as impaired on the 303(d) list? Yes

| Cause of Impairment Group | Pollutant | Units | Monitoring Required? | TMDL Completed? |
|----------------------------------|----------------------------------|----------------------|----------------------|-----------------|
| POLYCHLORINATED BIPHENYLS (PCBS) | Polychlorinated biphenyls [PCBs] | Milligrams per Liter | <u>Yes</u> | <u>No</u> |
| METALS (OTHER THAN MERCURY) | Aluminum, total recoverable | Micrograms per Liter | <u>Yes</u> | <u>No</u> |
| METALS (OTHER THAN MERCURY) | Copper, dissolved [as Cu] | Micrograms per Liter | <u>Yes</u> | <u>No</u> |

Discharge Point 043: TA-60 Asphalt Batch Plant

Applicable Sectors

Select the Sectors/Subsector(s) that apply to this discharge point.

| | Sector | Subsector | SIC/Activity Code |
|-------------------------------------|---|---|-------------------|
| <input checked="" type="checkbox"/> | D - ASPHALT PAVING AND ROOFING MATERIALS AND LUBRICANTS | D1 - Asphalt Paving and Roofing Materials | 2951 |
| <input type="checkbox"/> | N - SCRAP RECYCLING FACILITIES | N2 - Source-separated Recycling Facility | 5093 |
| <input type="checkbox"/> | P - LAND TRANSPORTATION AND WAREHOUSING | P1 - Railroad Transportation; Local and Highway Passenger Transportation; Motor Freight Transportation and Warehousing; United States Postal Service; Petroleum Bulk Stations and Terminals | 4212 |
| <input type="checkbox"/> | AA - FABRICATED METAL PRODUCTS | AA1 - Fabricated Metal Products, Except Machinery and Transportation Equipment, and Coating, Engraving, and Allied Services; Jewelry, Silverware, and Plated Ware | 3499 |

Federal Effluent Limitation Guidelines:

Identify the Effluent Limitation Guideline(s) that apply to your stormwater discharges.

| 40 CFR Part/Subpart | Eligible Discharges | Affected MSGP Sector | New Source Date | Applicability |
|---------------------|---------------------|----------------------|-----------------|---|
| Part 443, | Runoff from asphalt | D | 07/28/1975 | Does your discharge point have any discharges subject to this |

| | | | | |
|-----------|---------------------|--|--|--|
| Subpart A | emulsion facilities | | | effluent limitation guideline? <u>Yes</u> |
|-----------|---------------------|--|--|--|

Are you requesting permit coverage for any stormwater discharges subject to effluent limitation guidelines? Yes

Latitude/Longitude: 35.866084°N, 106.290165°W

This discharge point is *Substantially Identical* to an existing discharge point.

Receiving Water

GNIS Name:

Waterbody Name:

Listed Water ID:

MORTANDAD CANYON (WITHIN LANL)

NM-9000.A_042

Is this receiving water saltwater or freshwater? Freshwater

Is this receiving water designated by the state or tribal authority under its antidegradation policy as a Tier 2 (or Tier 2.5) water (water quality exceeds levels necessary to support propagation of fish, shellfish, and wildlife and recreation in and on the water)?

No

Will you have stormwater discharges from paved surfaces that will be initially sealed or re-sealed with coal-tar sealcoat where industrial activities are located during coverage under this permit?

No

Benchmark Monitoring

Are you subject to benchmark monitoring requirements for a hardness-dependent metal? No

Impaired Waters Monitoring

NOTE: The information automatically populated in this section may be outdated and inaccurate (i.e. determining if the receiving water is listed as impaired on the 303(d) list, the cause(s) of the impairment if impaired, the pollutant(s)). It is recommended that you consult with your state's guidance for discharges into impaired waters to determine whether the receiving water is listed as impaired and, if so, the correct causes for the impairment and pollutant(s), and update the information accordingly.

Is the receiving water listed as impaired on the 303(d) list? Yes

| Cause of Impairment Group | Pollutant | Units | Monitoring Required? | TMDL Completed? |
|----------------------------------|----------------------------------|----------------------|----------------------|-----------------|
| POLYCHLORINATED BIPHENYLS (PCBS) | Polychlorinated biphenyls [PCBs] | Milligrams per Liter | <u>Yes</u> | <u>No</u> |
| MERCURY | Mercury, total [as Hg] | Milligrams per Liter | <u>No</u> | <u>No</u> |
| METALS (OTHER THAN MERCURY) | Copper, dissolved [as Cu] | Micrograms per Liter | <u>Yes</u> | <u>No</u> |
| RADIATION | Alpha, gross adjusted | Picocuries per Liter | <u>Yes</u> | <u>No</u> |

Discharge Point 031: TA-60 Roads and Grounds

Applicable Sectors

Select the Sectors/Subsector(s) that apply to this discharge point.

| | Sector | Subsector | SIC/Activity Code |
|-------------------------------------|---|---|-------------------|
| <input type="checkbox"/> | D - ASPHALT PAVING AND ROOFING MATERIALS AND LUBRICANTS | D1 - Asphalt Paving and Roofing Materials | 2951 |
| <input type="checkbox"/> | N - SCRAP RECYCLING FACILITIES | N2 - Source-separated Recycling Facility | 5093 |
| <input checked="" type="checkbox"/> | P - LAND TRANSPORTATION AND WAREHOUSING | P1 - Railroad Transportation; Local and Highway Passenger Transportation; Motor Freight Transportation and Warehousing; United States Postal Service; Petroleum Bulk Stations and Terminals | 4212 |
| <input type="checkbox"/> | AA - FABRICATED METAL PRODUCTS | AA1 - Fabricated Metal Products, Except Machinery and Transportation Equipment, and Coating, Engraving, and Allied Services; Jewelry, Silverware, and Plated Ware | 3499 |

Federal Effluent Limitation Guidelines:

Identify the Effluent Limitation Guideline(s) that apply to your stormwater discharges.

There are no guidelines associated with the sector(s) selected in this discharge point.

Are you requesting permit coverage for any stormwater discharges subject to effluent limitation guidelines? No

Latitude/Longitude: 35.869227°N, 106.305685°W

This discharge point is *Substantially Identical* to an existing discharge point.

Receiving Water

GNIS Name:

Waterbody Name:

Listed Water ID:

MORTANDAD CANYON (WITHIN LANL)

NM-9000.A_042

Is this receiving water saltwater or freshwater? Freshwater

Is this receiving water designated by the state or tribal authority under its antidegradation policy as a Tier 2 (or Tier 2.5) water (water quality exceeds levels necessary to support propagation of fish, shellfish, and wildlife and recreation in and on the water)?

No

Will you have stormwater discharges from paved surfaces that will be initially sealed or re-sealed with coal-tar sealcoat where industrial activities are located during coverage under this permit?

No

Benchmark Monitoring

Are you subject to benchmark monitoring requirements for a hardness-dependent metal? No

Impaired Waters Monitoring

NOTE: The information automatically populated in this section may be outdated and inaccurate (i.e. determining if the receiving water is listed as impaired on the 303(d) list, the cause(s) of the impairment if impaired, the pollutant(s)). It is recommended that you consult with your state's guidance for discharges into impaired waters to determine whether the receiving water is listed as impaired and, if so, the correct causes for the impairment and pollutant(s), and update the information accordingly.

Is the receiving water listed as impaired on the 303(d) list? Yes

| Cause of Impairment Group | Pollutant | Units | Monitoring Required? | TMDL Completed? |
|----------------------------------|----------------------------------|----------------------|----------------------|-----------------|
| POLYCHLORINATED BIPHENYLS (PCBS) | Polychlorinated biphenyls [PCBs] | Milligrams per Liter | <u>Yes</u> | <u>No</u> |
| MERCURY | Mercury, total [as Hg] | Milligrams per Liter | <u>No</u> | <u>No</u> |
| METALS (OTHER THAN MERCURY) | Copper, dissolved [as Cu] | Micrograms per Liter | <u>Yes</u> | <u>No</u> |
| RADIATION | Alpha, gross adjusted | Picocuries per Liter | <u>Yes</u> | <u>No</u> |

Discharge Point 033: TA-60 Roads and Grounds SIO to 032

Applicable Sectors

Select the Sectors/Subsector(s) that apply to this discharge point.

| | Sector | Subsector | SIC/Activity Code |
|-------------------------------------|---|---|-------------------|
| <input type="checkbox"/> | D - ASPHALT PAVING AND ROOFING MATERIALS AND LUBRICANTS | D1 - Asphalt Paving and Roofing Materials | 2951 |
| <input type="checkbox"/> | N - SCRAP RECYCLING FACILITIES | N2 - Source-separated Recycling Facility | 5093 |
| <input checked="" type="checkbox"/> | P - LAND TRANSPORTATION AND WAREHOUSING | P1 - Railroad Transportation; Local and Highway Passenger Transportation; Motor Freight Transportation and Warehousing; United States Postal Service; Petroleum Bulk Stations and Terminals | 4212 |
| <input type="checkbox"/> | AA - FABRICATED METAL PRODUCTS | AA1 - Fabricated Metal Products, Except Machinery and Transportation Equipment, and Coating, Engraving, and Allied Services; Jewelry, Silverware, and Plated Ware | 3499 |

Federal Effluent Limitation Guidelines:

Identify the Effluent Limitation Guideline(s) that apply to your stormwater discharges.

There are no guidelines associated with the sector(s) selected in this discharge point.

Are you requesting permit coverage for any stormwater discharges subject to effluent limitation guidelines? No

Latitude/Longitude: 35.870712°N, 106.306443°W

This discharge point is *Substantially Identical* to an existing discharge point.

➔ Substantially Identical to Discharge Point ID: 032

Receiving Water

GNIS Name:

Waterbody Name:
SANDIA CANYON (SIGMA CANYON TO
NPDES OUTFALL 001)

Listed Water ID:
NM-9000.A_047

Is this receiving water saltwater or freshwater? Freshwater

Is this receiving water designated by the state or tribal authority under its antidegradation policy as a Tier 2 (or Tier 2.5) water (water quality exceeds levels necessary to support propagation of fish, shellfish, and wildlife and recreation in and on the water)?

No

Will you have stormwater discharges from paved surfaces that will be initially sealed or re-sealed with coal-tar sealcoat where industrial activities are located during coverage under this permit?

No

Benchmark Monitoring

Are you subject to benchmark monitoring requirements for a hardness-dependent metal? No

Impaired Waters Monitoring

NOTE: The information automatically populated in this section may be outdated and inaccurate (i.e. determining if the receiving water is listed as impaired on the 303(d) list, the cause(s) of the impairment if impaired, the pollutant(s)). It is recommended that you consult with your state's guidance for discharges into impaired waters to determine whether the receiving water is listed as impaired and, if so, the correct causes for the impairment and pollutant(s), and update the information accordingly.

Is the receiving water listed as impaired on the 303(d) list? Yes

| Cause of Impairment Group | Pollutant | Units | Monitoring Required? | TMDL Completed? |
|----------------------------------|----------------------------------|----------------------|----------------------|-----------------|
| POLYCHLORINATED BIPHENYLS (PCBS) | Polychlorinated biphenyls [PCBs] | Milligrams per Liter | <u>Yes</u> | <u>No</u> |
| METALS (OTHER THAN MERCURY) | Aluminum, total recoverable | Micrograms per Liter | <u>Yes</u> | <u>No</u> |
| METALS (OTHER THAN MERCURY) | Copper, dissolved [as Cu] | Micrograms per Liter | <u>Yes</u> | <u>No</u> |

Discharge Point 027: TA-60-2 Warehouse SIO to 026

Applicable Sectors

Select the Sectors/Subsector(s) that apply to this discharge point.

| | Sector | Subsector | SIC/Activity Code |
|-------------------------------------|---|---|-------------------|
| <input type="checkbox"/> | D - ASPHALT PAVING AND ROOFING MATERIALS AND LUBRICANTS | D1 - Asphalt Paving and Roofing Materials | 2951 |
| <input type="checkbox"/> | N - SCRAP RECYCLING FACILITIES | N2 - Source-separated Recycling Facility | 5093 |
| <input checked="" type="checkbox"/> | P - LAND TRANSPORTATION AND | P1 - Railroad Transportation; Local and Highway Passenger Transportation; Motor Freight | 4212 |

| | | | |
|--------------------------|--------------------------------|---|------|
| | WAREHOUSING | Transportation and Warehousing; United States Postal Service; Petroleum Bulk Stations and Terminals | |
| <input type="checkbox"/> | AA - FABRICATED METAL PRODUCTS | AA1 - Fabricated Metal Products, Except Machinery and Transportation Equipment, and Coating, Engraving, and Allied Services; Jewelry, Silverware, and Plated Ware | 3499 |

Federal Effluent Limitation Guidelines:

Identify the Effluent Limitation Guideline(s) that apply to your stormwater discharges.

There are no guidelines associated with the sector(s) selected in this discharge point.

Are you requesting permit coverage for any stormwater discharges subject to effluent limitation guidelines? No

Latitude/Longitude: 35.872401°N, 106.313391°W

This discharge point is *Substantially Identical* to an existing discharge point.

➔ Substantially Identical to Discharge Point ID: 026

Receiving Water

GNIS Name:

Waterbody Name:

Listed Water ID:

SANDIA CANYON (SIGMA CANYON TO NPDES OUTFALL 001)

NM-9000.A_047

Is this receiving water saltwater or freshwater? Freshwater

Is this receiving water designated by the state or tribal authority under its antidegradation policy as a Tier 2 (or Tier 2.5) water (water quality exceeds levels necessary to support propagation of fish, shellfish, and wildlife and recreation in and on the water)?

No

Will you have stormwater discharges from paved surfaces that will be initially sealed or re-sealed with coal-tar sealcoat where industrial activities are located during coverage under this permit?

No

Benchmark Monitoring

Are you subject to benchmark monitoring requirements for a hardness-dependent metal? No

Impaired Waters Monitoring

NOTE: The information automatically populated in this section may be outdated and inaccurate (i.e. determining if the receiving water is listed as impaired on the 303(d) list, the cause(s) of the impairment if impaired, the pollutant(s)). It is recommended that you consult with your state's guidance for discharges into impaired waters to determine whether the receiving water is listed as impaired and, if so, the correct causes for the impairment and pollutant(s), and update the information accordingly.

Is the receiving water listed as impaired on the 303(d) list? Yes

| Cause of Impairment Group | Pollutant | Units | Monitoring Required? | TMDL Completed? |
|----------------------------------|----------------------------------|----------------------|----------------------|-----------------|
| POLYCHLORINATED BIPHENYLS (PCBS) | Polychlorinated biphenyls [PCBs] | Milligrams per Liter | <u>Yes</u> | <u>No</u> |
| METALS (OTHER THAN MERCURY) | Aluminum, total recoverable | Micrograms per Liter | <u>Yes</u> | <u>No</u> |

| | | | | |
|-----------------------------|---------------------------|----------------------|------------|-----------|
| METALS (OTHER THAN MERCURY) | Copper, dissolved [as Cu] | Micrograms per Liter | <u>Yes</u> | <u>No</u> |
|-----------------------------|---------------------------|----------------------|------------|-----------|

Discharge Point 030: TA-60 Roads and Grounds SIO to 031

Applicable Sectors

Select the Sectors/Subsector(s) that apply to this discharge point.

| | Sector | Subsector | SIC/Activity Code |
|-------------------------------------|---|---|-------------------|
| <input type="checkbox"/> | D - ASPHALT PAVING AND ROOFING MATERIALS AND LUBRICANTS | D1 - Asphalt Paving and Roofing Materials | 2951 |
| <input type="checkbox"/> | N - SCRAP RECYCLING FACILITIES | N2 - Source-separated Recycling Facility | 5093 |
| <input checked="" type="checkbox"/> | P - LAND TRANSPORTATION AND WAREHOUSING | P1 - Railroad Transportation; Local and Highway Passenger Transportation; Motor Freight Transportation and Warehousing; United States Postal Service; Petroleum Bulk Stations and Terminals | 4212 |
| <input type="checkbox"/> | AA - FABRICATED METAL PRODUCTS | AA1 - Fabricated Metal Products, Except Machinery and Transportation Equipment, and Coating, Engraving, and Allied Services; Jewelry, Silverware, and Plated Ware | 3499 |

Federal Effluent Limitation Guidelines:

Identify the Effluent Limitation Guideline(s) that apply to your stormwater discharges.

There are no guidelines associated with the sector(s) selected in this discharge point.

Are you requesting permit coverage for any stormwater discharges subject to effluent limitation guidelines? No

Latitude/Longitude: 35.869325°N, 106.306926°W

This discharge point is *Substantially Identical* to an existing discharge point.

➔ Substantially Identical to Discharge Point ID: 031

Receiving Water

GNIS Name:

Waterbody Name:

MORTANDAD CANYON (WITHIN LANL)

Listed Water ID:

NM-9000.A_042

Is this receiving water saltwater or freshwater? Freshwater

Is this receiving water designated by the state or tribal authority under its antidegradation policy as a Tier 2 (or Tier 2.5) water (water quality exceeds levels necessary to support propagation of fish, shellfish, and wildlife and recreation in and on the water)?

No

Will you have stormwater discharges from paved surfaces that will be initially sealed or re-sealed with coal-tar sealcoat where industrial activities are located during coverage under this permit?

No

Benchmark Monitoring

Are you subject to benchmark monitoring requirements for a hardness-dependent metal? No

Impaired Waters Monitoring

NOTE: The information automatically populated in this section may be outdated and inaccurate (i.e. determining if the receiving water is listed as impaired on the 303(d) list, the cause(s) of the impairment if impaired, the pollutant(s)). It is recommended that you consult with your state's guidance for discharges into impaired waters to determine whether the receiving water is listed as impaired and, if so, the correct causes for the impairment and pollutant(s), and update the information accordingly.

Is the receiving water listed as impaired on the 303(d) list? Yes

| Cause of Impairment Group | Pollutant | Units | Monitoring Required? | TMDL Completed? |
|----------------------------------|----------------------------------|----------------------|----------------------|-----------------|
| POLYCHLORINATED BIPHENYLS (PCBS) | Polychlorinated biphenyls [PCBs] | Milligrams per Liter | <u>Yes</u> | <u>No</u> |
| MERCURY | Mercury, total [as Hg] | Milligrams per Liter | <u>No</u> | <u>No</u> |
| METALS (OTHER THAN MERCURY) | Copper, dissolved [as Cu] | Micrograms per Liter | <u>Yes</u> | <u>No</u> |
| RADIATION | Alpha, gross adjusted | Picocuries per Liter | <u>Yes</u> | <u>No</u> |

Discharge Point 029: TA-60 Metals Recycling Facility

Applicable Sectors

Select the Sectors/Subsector(s) that apply to this discharge point.

| | Sector | Subsector | SIC/Activity Code |
|-------------------------------------|---|---|-------------------|
| <input type="checkbox"/> | D - ASPHALT PAVING AND ROOFING MATERIALS AND LUBRICANTS | D1 - Asphalt Paving and Roofing Materials | 2951 |
| <input checked="" type="checkbox"/> | N - SCRAP RECYCLING FACILITIES | N2 - Source-separated Recycling Facility | 5093 |
| <input type="checkbox"/> | P - LAND TRANSPORTATION AND WAREHOUSING | P1 - Railroad Transportation; Local and Highway Passenger Transportation; Motor Freight Transportation and Warehousing; United States Postal Service; Petroleum Bulk Stations and Terminals | 4212 |
| <input type="checkbox"/> | AA - FABRICATED METAL PRODUCTS | AA1 - Fabricated Metal Products, Except Machinery and Transportation Equipment, and Coating, Engraving, and Allied Services; Jewelry, Silverware, and Plated Ware | 3499 |

Federal Effluent Limitation Guidelines:

Identify the Effluent Limitation Guideline(s) that apply to your stormwater discharges.

There are no guidelines associated with the sector(s) selected in this discharge point.

Are you requesting permit coverage for any stormwater discharges subject to effluent limitation guidelines? No

Latitude/Longitude: 35.873969°N, 106.313281°W

This discharge point is *Substantially Identical* to an existing discharge point.

Receiving Water

GNIS Name:

Waterbody Name:

Listed Water ID:

SANDIA CANYON (SIGMA CANYON TO
NPDES OUTFALL 001)

NM-9000.A_047

Is this receiving water saltwater or freshwater? Freshwater

Is this receiving water designated by the state or tribal authority under its antidegradation policy as a Tier 2 (or Tier 2.5) water (water quality exceeds levels necessary to support propagation of fish, shellfish, and wildlife and recreation in and on the water)?

No

Will you have stormwater discharges from paved surfaces that will be initially sealed or re-sealed with coal-tar sealcoat where industrial activities are located during coverage under this permit?

No

Benchmark Monitoring

Are you subject to benchmark monitoring requirements for a hardness-dependent metal? No

Impaired Waters Monitoring

NOTE: The information automatically populated in this section may be outdated and inaccurate (i.e. determining if the receiving water is listed as impaired on the 303(d) list, the cause(s) of the impairment if impaired, the pollutant(s)). It is recommended that you consult with your state's guidance for discharges into impaired waters to determine whether the receiving water is listed as impaired and, if so, the correct causes for the impairment and pollutant(s), and update the information accordingly.

Is the receiving water listed as impaired on the 303(d) list? Yes

| Cause of Impairment Group | Pollutant | Units | Monitoring Required? | TMDL Completed? |
|----------------------------------|----------------------------------|----------------------|----------------------|-----------------|
| POLYCHLORINATED BIPHENYLS (PCBS) | Polychlorinated biphenyls [PCBs] | Milligrams per Liter | <u>Yes</u> | <u>No</u> |
| METALS (OTHER THAN MERCURY) | Aluminum, total recoverable | Micrograms per Liter | <u>Yes</u> | <u>No</u> |
| METALS (OTHER THAN MERCURY) | Copper, dissolved [as Cu] | Micrograms per Liter | <u>Yes</u> | <u>No</u> |

Discharge Point 075: TA-60-2 Warehouse

Applicable Sectors

Select the Sectors/Subsector(s) that apply to this discharge point.

| | | | | |
|--|--|--|--|--|
| | | | | |
|--|--|--|--|--|

| | Sector | Subsector | SIC/Activity Code |
|-------------------------------------|---|---|-------------------|
| <input type="checkbox"/> | D - ASPHALT PAVING AND ROOFING MATERIALS AND LUBRICANTS | D1 - Asphalt Paving and Roofing Materials | 2951 |
| <input type="checkbox"/> | N - SCRAP RECYCLING FACILITIES | N2 - Source-separated Recycling Facility | 5093 |
| <input checked="" type="checkbox"/> | P - LAND TRANSPORTATION AND WAREHOUSING | P1 - Railroad Transportation; Local and Highway Passenger Transportation; Motor Freight Transportation and Warehousing; United States Postal Service; Petroleum Bulk Stations and Terminals | 4212 |
| <input type="checkbox"/> | AA - FABRICATED METAL PRODUCTS | AA1 - Fabricated Metal Products, Except Machinery and Transportation Equipment, and Coating, Engraving, and Allied Services; Jewelry, Silverware, and Plated Ware | 3499 |

Federal Effluent Limitation Guidelines:

Identify the Effluent Limitation Guideline(s) that apply to your stormwater discharges.

There are no guidelines associated with the sector(s) selected in this discharge point.

Are you requesting permit coverage for any stormwater discharges subject to effluent limitation guidelines? No

Latitude/Longitude: 35.871154°N, 106.31294°W

This discharge point is *Substantially Identical* to an existing discharge point.

Receiving Water

GNIS Name:

Waterbody Name:

SANDIA CANYON (SIGMA CANYON TO
NPDES OUTFALL 001)

Listed Water ID:

NM-9000.A_047

Is this receiving water saltwater or freshwater? Freshwater

Is this receiving water designated by the state or tribal authority under its antidegradation policy as a Tier 2 (or Tier 2.5) water (water quality exceeds levels necessary to support propagation of fish, shellfish, and wildlife and recreation in and on the water)?

No

Will you have stormwater discharges from paved surfaces that will be initially sealed or re-sealed with coal-tar sealcoat where industrial activities are located during coverage under this permit?

No

Benchmark Monitoring

Are you subject to benchmark monitoring requirements for a hardness-dependent metal? No

Impaired Waters Monitoring

NOTE: The information automatically populated in this section may be outdated and inaccurate (i.e. determining if the receiving water is listed as impaired on the 303(d) list, the cause(s) of the impairment if impaired, the pollutant(s)). It is recommended that you consult with your state's guidance for discharges into impaired waters to determine whether the receiving water is listed as impaired and, if so, the correct causes for the impairment and pollutant(s), and update the information accordingly.

Is the receiving water listed as impaired on the 303(d) list? Yes

| Cause of Impairment Group | Pollutant | Units | Monitoring Required? | TMDL Completed? |
|----------------------------------|----------------------------------|----------------------|----------------------|-----------------|
| POLYCHLORINATED BIPHENYLS (PCBS) | Polychlorinated biphenyls [PCBs] | Milligrams per Liter | <u>Yes</u> | <u>No</u> |
| METALS (OTHER THAN MERCURY) | Aluminum, total recoverable | Micrograms per Liter | <u>Yes</u> | <u>No</u> |
| METALS (OTHER THAN MERCURY) | Copper, dissolved [as Cu] | Micrograms per Liter | <u>Yes</u> | <u>No</u> |

Discharge Point 021: TA-60-1 Heavy Equipment Yard SIO to 022

Applicable Sectors

Select the Sectors/Subsector(s) that apply to this discharge point.

| | Sector | Subsector | SIC/Activity Code |
|-------------------------------------|---|---|-------------------|
| <input type="checkbox"/> | D - ASPHALT PAVING AND ROOFING MATERIALS AND LUBRICANTS | D1 - Asphalt Paving and Roofing Materials | 2951 |
| <input type="checkbox"/> | N - SCRAP RECYCLING FACILITIES | N2 - Source-separated Recycling Facility | 5093 |
| <input checked="" type="checkbox"/> | P - LAND TRANSPORTATION AND WAREHOUSING | P1 - Railroad Transportation; Local and Highway Passenger Transportation; Motor Freight Transportation and Warehousing; United States Postal Service; Petroleum Bulk Stations and Terminals | 4212 |
| <input checked="" type="checkbox"/> | AA - FABRICATED METAL PRODUCTS | AA1 - Fabricated Metal Products, Except Machinery and Transportation Equipment, and Coating, Engraving, and Allied Services; Jewelry, Silverware, and Plated Ware | 3499 |

Federal Effluent Limitation Guidelines:

Identify the Effluent Limitation Guideline(s) that apply to your stormwater discharges.

There are no guidelines associated with the sector(s) selected in this discharge point.

Are you requesting permit coverage for any stormwater discharges subject to effluent limitation guidelines? No

Latitude/Longitude: 35.872514°N, 106.313562°W

This discharge point is *Substantially Identical* to an existing discharge point.

➔ Substantially Identical to Discharge Point ID: 022

Receiving Water

GNIS Name:

Waterbody Name:

SANDIA CANYON (SIGMA CANYON TO NPDES OUTFALL 001)

Listed Water ID:

NM-9000.A_047

Is this receiving water saltwater or freshwater? Freshwater

Is this receiving water designated by the state or tribal authority under its antidegradation policy as a Tier 2 (or Tier 2.5) water (water quality exceeds levels necessary to support propagation of fish, shellfish, and wildlife and recreation in and on the water)?

No

Will you have stormwater discharges from paved surfaces that will be initially sealed or re-sealed with coal-tar sealcoat where industrial activities are located during coverage under this permit?

No

Benchmark Monitoring

Are you subject to benchmark monitoring requirements for a hardness-dependent metal? Yes

➔ What is the hardness of your receiving water(s)? 61

(mg/L)

Impaired Waters Monitoring

NOTE: The information automatically populated in this section may be outdated and inaccurate (i.e. determining if the receiving water is listed as impaired on the 303(d) list, the cause(s) of the impairment if impaired, the pollutant(s)). It is recommended that you consult with your state's guidance for discharges into impaired waters to determine whether the receiving water is listed as impaired and, if so, the correct causes for the impairment and pollutant(s), and update the information accordingly.

Is the receiving water listed as impaired on the 303(d) list? Yes

| Cause of Impairment Group | Pollutant | Units | Monitoring Required? | TMDL Completed? |
|----------------------------------|----------------------------------|----------------------|----------------------|-----------------|
| POLYCHLORINATED BIPHENYLS (PCBS) | Polychlorinated biphenyls [PCBs] | Milligrams per Liter | <u>Yes</u> | <u>No</u> |
| METALS (OTHER THAN MERCURY) | Aluminum, total recoverable | Micrograms per Liter | <u>Yes</u> | <u>No</u> |
| METALS (OTHER THAN MERCURY) | Copper, dissolved [as Cu] | Micrograms per Liter | <u>Yes</u> | <u>No</u> |

Discharge Point 042: TA-60 Roads and Grounds

Applicable Sectors

Select the Sectors/Subsector(s) that apply to this discharge point.

| | Sector | Subsector | SIC/Activity Code |
|-------------------------------------|---|---|-------------------|
| <input type="checkbox"/> | D - ASPHALT PAVING AND ROOFING MATERIALS AND LUBRICANTS | D1 - Asphalt Paving and Roofing Materials | 2951 |
| <input type="checkbox"/> | N - SCRAP RECYCLING FACILITIES | N2 - Source-separated Recycling Facility | 5093 |
| <input checked="" type="checkbox"/> | P - LAND TRANSPORTATION AND WAREHOUSING | P1 - Railroad Transportation; Local and Highway Passenger Transportation; Motor Freight Transportation and Warehousing; United States Postal Service; Petroleum Bulk Stations and | 4212 |

| | | | |
|--------------------------|--------------------------------|---|------|
| | | Terminals | |
| <input type="checkbox"/> | AA - FABRICATED METAL PRODUCTS | AA1 - Fabricated Metal Products, Except Machinery and Transportation Equipment, and Coating, Engraving, and Allied Services; Jewelry, Silverware, and Plated Ware | 3499 |

Federal Effluent Limitation Guidelines:

Identify the Effluent Limitation Guideline(s) that apply to your stormwater discharges.

There are no guidelines associated with the sector(s) selected in this discharge point.

Are you requesting permit coverage for any stormwater discharges subject to effluent limitation guidelines? No

Latitude/Longitude: 35.867047°N, 106.289163°W

This discharge point is *Substantially Identical* to an existing discharge point.

Receiving Water

GNIS Name:

Waterbody Name:

Listed Water ID:

SANDIA CANYON (SIGMA CANYON TO
NPDES OUTFALL 001)

NM-9000.A_047

Is this receiving water saltwater or freshwater? Freshwater

Is this receiving water designated by the state or tribal authority under its antidegradation policy as a Tier 2 (or Tier 2.5) water (water quality exceeds levels necessary to support propagation of fish, shellfish, and wildlife and recreation in and on the water)?

No

Will you have stormwater discharges from paved surfaces that will be initially sealed or re-sealed with coal-tar sealcoat where industrial activities are located during coverage under this permit?

No

Benchmark Monitoring

Are you subject to benchmark monitoring requirements for a hardness-dependent metal? No

Impaired Waters Monitoring

NOTE: The information automatically populated in this section may be outdated and inaccurate (i.e. determining if the receiving water is listed as impaired on the 303(d) list, the cause(s) of the impairment if impaired, the pollutant(s)). It is recommended that you consult with your state's guidance for discharges into impaired waters to determine whether the receiving water is listed as impaired and, if so, the correct causes for the impairment and pollutant(s), and update the information accordingly.

Is the receiving water listed as impaired on the 303(d) list? Yes

| Cause of Impairment Group | Pollutant | Units | Monitoring Required? | TMDL Completed? |
|----------------------------------|----------------------------------|----------------------|----------------------|-----------------|
| METALS (OTHER THAN MERCURY) | Aluminum, total recoverable | Micrograms per Liter | <u>Yes</u> | <u>No</u> |
| METALS (OTHER THAN MERCURY) | Copper, dissolved [as Cu] | Micrograms per Liter | <u>Yes</u> | <u>No</u> |
| POLYCHLORINATED BIPHENYLS (PCBS) | Polychlorinated biphenyls [PCBs] | Milligrams per Liter | <u>Yes</u> | <u>No</u> |

Discharge Point 022: TA-60-1 Heavy Equipment Yard

Applicable Sectors

Select the Sectors/Subsector(s) that apply to this discharge point.

| | Sector | Subsector | SIC/Activity Code |
|-------------------------------------|---|---|-------------------|
| <input type="checkbox"/> | D - ASPHALT PAVING AND ROOFING MATERIALS AND LUBRICANTS | D1 - Asphalt Paving and Roofing Materials | 2951 |
| <input type="checkbox"/> | N - SCRAP RECYCLING FACILITIES | N2 - Source-separated Recycling Facility | 5093 |
| <input checked="" type="checkbox"/> | P - LAND TRANSPORTATION AND WAREHOUSING | P1 - Railroad Transportation; Local and Highway Passenger Transportation; Motor Freight Transportation and Warehousing; United States Postal Service; Petroleum Bulk Stations and Terminals | 4212 |
| <input checked="" type="checkbox"/> | AA - FABRICATED METAL PRODUCTS | AA1 - Fabricated Metal Products, Except Machinery and Transportation Equipment, and Coating, Engraving, and Allied Services; Jewelry, Silverware, and Plated Ware | 3499 |

Federal Effluent Limitation Guidelines:

Identify the Effluent Limitation Guideline(s) that apply to your stormwater discharges.

There are no guidelines associated with the sector(s) selected in this discharge point.

Are you requesting permit coverage for any stormwater discharges subject to effluent limitation guidelines? No

Latitude/Longitude: 35.872661°N, 106.313691°W

This discharge point is *Substantially Identical* to an existing discharge point.

Receiving Water

GNIS Name:

Waterbody Name:

SANDIA CANYON (SIGMA CANYON TO
NPDES OUTFALL 001)

Listed Water ID:

NM-9000.A_047

Is this receiving water saltwater or freshwater? Freshwater

Is this receiving water designated by the state or tribal authority under its antidegradation policy as a Tier 2 (or Tier 2.5) water (water quality exceeds levels necessary to support propagation of fish, shellfish, and wildlife and recreation in and on the water)?

No

Will you have stormwater discharges from paved surfaces that will be initially sealed or re-sealed with coal-tar sealcoat where industrial activities are located during coverage under this permit?

No

Benchmark Monitoring

Are you subject to benchmark monitoring requirements for a hardness-dependent metal? Yes

➔ What is the hardness of your receiving water(s)? 61

(mg/L)

Impaired Waters Monitoring

NOTE: The information automatically populated in this section may be outdated and inaccurate (i.e. determining if the receiving water is listed as impaired on the 303(d) list, the cause(s) of the impairment if impaired, the pollutant(s)). It is recommended that you consult with your state's guidance for discharges into impaired waters to determine whether the receiving water is listed as impaired and, if so, the correct causes for the impairment and pollutant(s), and update the information accordingly.

Is the receiving water listed as impaired on the 303(d) list? Yes

| Cause of Impairment Group | Pollutant | Units | Monitoring Required? | TMDL Completed? |
|----------------------------------|----------------------------------|----------------------|----------------------|-----------------|
| METALS (OTHER THAN MERCURY) | Aluminum, total recoverable | Micrograms per Liter | <u>Yes</u> | <u>No</u> |
| POLYCHLORINATED BIPHENYLS (PCBS) | Polychlorinated biphenyls [PCBs] | Milligrams per Liter | <u>Yes</u> | <u>No</u> |
| METALS (OTHER THAN MERCURY) | Copper, dissolved [as Cu] | Micrograms per Liter | <u>Yes</u> | <u>No</u> |

Discharge Point 025: TA-60-1 Heavy Equipment Yard SIO to 022

Applicable Sectors

Select the Sectors/Subsector(s) that apply to this discharge point.

| | Sector | Subsector | SIC/Activity Code |
|-------------------------------------|---|---|-------------------|
| <input type="checkbox"/> | D - ASPHALT PAVING AND ROOFING MATERIALS AND LUBRICANTS | D1 - Asphalt Paving and Roofing Materials | 2951 |
| <input type="checkbox"/> | N - SCRAP RECYCLING FACILITIES | N2 - Source-separated Recycling Facility | 5093 |
| <input checked="" type="checkbox"/> | P - LAND TRANSPORTATION AND WAREHOUSING | P1 - Railroad Transportation; Local and Highway Passenger Transportation; Motor Freight Transportation and Warehousing; United States Postal Service; Petroleum Bulk Stations and Terminals | 4212 |
| <input checked="" type="checkbox"/> | AA - FABRICATED METAL PRODUCTS | AA1 - Fabricated Metal Products, Except Machinery and Transportation Equipment, and Coating, Engraving, and Allied Services; Jewelry, Silverware, and Plated Ware | 3499 |

Federal Effluent Limitation Guidelines:

Identify the Effluent Limitation Guideline(s) that apply to your stormwater discharges.

There are no guidelines associated with the sector(s) selected in this discharge point.

Are you requesting permit coverage for any stormwater discharges subject to effluent limitation guidelines? No

Latitude/Longitude: 35.872928°N, 106.3154°W

This discharge point is *Substantially Identical* to an existing discharge point.

➔ Substantially Identical to Discharge Point ID: 022

Receiving Water

GNIS Name:

Waterbody Name:

Listed Water ID:

SANDIA CANYON (SIGMA CANYON TO
NPDES OUTFALL 001)

NM-9000.A_047

Is this receiving water saltwater or freshwater? Freshwater

Is this receiving water designated by the state or tribal authority under its antidegradation policy as a Tier 2 (or Tier 2.5) water (water quality exceeds levels necessary to support propagation of fish, shellfish, and wildlife and recreation in and on the water)?

No

Will you have stormwater discharges from paved surfaces that will be initially sealed or re-sealed with coal-tar sealcoat where industrial activities are located during coverage under this permit?

No

Benchmark Monitoring

Are you subject to benchmark monitoring requirements for a hardness-dependent metal? Yes

➔ What is the hardness of your receiving water(s)? 61

(mg/L)

Impaired Waters Monitoring

NOTE: The information automatically populated in this section may be outdated and inaccurate (i.e. determining if the receiving water is listed as impaired on the 303(d) list, the cause(s) of the impairment if impaired, the pollutant(s)). It is recommended that you consult with your state's guidance for discharges into impaired waters to determine whether the receiving water is listed as impaired and, if so, the correct causes for the impairment and pollutant(s), and update the information accordingly.

Is the receiving water listed as impaired on the 303(d) list? Yes

| Cause of Impairment Group | Pollutant | Units | Monitoring Required? | TMDL Completed? |
|----------------------------------|----------------------------------|----------------------|----------------------|-----------------|
| METALS (OTHER THAN MERCURY) | Aluminum, total recoverable | Micrograms per Liter | <u>Yes</u> | <u>No</u> |
| POLYCHLORINATED BIPHENYLS (PCBS) | Polychlorinated biphenyls [PCBs] | Milligrams per Liter | <u>Yes</u> | <u>No</u> |
| METALS (OTHER THAN MERCURY) | Copper, dissolved [as Cu] | Micrograms per Liter | <u>Yes</u> | <u>No</u> |

Discharge Point 026: TA-60-2 Warehouse

Applicable Sectors

Select the Sectors/Subsector(s) that apply to this discharge point.

| | Sector | Subsector | SIC/Activity Code |
|-------------------------------------|---|---|-------------------|
| <input type="checkbox"/> | D - ASPHALT PAVING AND ROOFING MATERIALS AND LUBRICANTS | D1 - Asphalt Paving and Roofing Materials | 2951 |
| <input type="checkbox"/> | N - SCRAP RECYCLING FACILITIES | N2 - Source-separated Recycling Facility | 5093 |
| <input checked="" type="checkbox"/> | P - LAND TRANSPORTATION AND WAREHOUSING | P1 - Railroad Transportation; Local and Highway Passenger Transportation; Motor Freight Transportation and Warehousing; United States Postal Service; Petroleum Bulk Stations and Terminals | 4212 |
| <input type="checkbox"/> | AA - FABRICATED METAL PRODUCTS | AA1 - Fabricated Metal Products, Except Machinery and Transportation Equipment, and Coating, Engraving, and Allied Services; Jewelry, Silverware, and Plated Ware | 3499 |

Federal Effluent Limitation Guidelines:

Identify the Effluent Limitation Guideline(s) that apply to your stormwater discharges.

There are no guidelines associated with the sector(s) selected in this discharge point.

Are you requesting permit coverage for any stormwater discharges subject to effluent limitation guidelines? No

Latitude/Longitude: 35.872114°N, 106.313105°W

This discharge point is *Substantially Identical* to an existing discharge point.

Receiving Water

GNIS Name:

Waterbody Name:

SANDIA CANYON (SIGMA CANYON TO
NPDES OUTFALL 001)

Listed Water ID:

NM-9000.A_047

Is this receiving water saltwater or freshwater? Freshwater

Is this receiving water designated by the state or tribal authority under its antidegradation policy as a Tier 2 (or Tier 2.5) water (water quality exceeds levels necessary to support propagation of fish, shellfish, and wildlife and recreation in and on the water)?

No

Will you have stormwater discharges from paved surfaces that will be initially sealed or re-sealed with coal-tar sealcoat where industrial activities are located during coverage under this permit?

No

Benchmark Monitoring

Are you subject to benchmark monitoring requirements for a hardness-dependent metal? No

Impaired Waters Monitoring

NOTE: The information automatically populated in this section may be outdated and inaccurate (i.e. determining if the receiving water is listed as impaired on the 303(d) list, the cause(s) of the impairment if impaired, the pollutant(s)). It is recommended that you consult with your state's guidance for discharges into impaired waters to determine whether the receiving water is listed as impaired and, if so, the correct causes for the impairment and pollutant(s), and update the information accordingly.

Is the receiving water listed as impaired on the 303(d) list? Yes

| Cause of Impairment Group | Pollutant | Units | Monitoring Required? | TMDL Completed? |
|----------------------------------|----------------------------------|----------------------|----------------------|-----------------|
| POLYCHLORINATED BIPHENYLS (PCBS) | Polychlorinated biphenyls [PCBs] | Milligrams per Liter | <u>Yes</u> | <u>No</u> |
| METALS (OTHER THAN MERCURY) | Aluminum, total recoverable | Micrograms per Liter | <u>Yes</u> | <u>No</u> |
| METALS (OTHER THAN MERCURY) | Copper, dissolved [as Cu] | Micrograms per Liter | <u>Yes</u> | <u>No</u> |

Discharge Point 037: TA-60 Roads and Grounds

Applicable Sectors

Select the Sectors/Subsector(s) that apply to this discharge point.

| | Sector | Subsector | SIC/Activity Code |
|-------------------------------------|---|---|-------------------|
| <input type="checkbox"/> | D - ASPHALT PAVING AND ROOFING MATERIALS AND LUBRICANTS | D1 - Asphalt Paving and Roofing Materials | 2951 |
| <input type="checkbox"/> | N - SCRAP RECYCLING FACILITIES | N2 - Source-separated Recycling Facility | 5093 |
| <input checked="" type="checkbox"/> | P - LAND TRANSPORTATION AND WAREHOUSING | P1 - Railroad Transportation; Local and Highway Passenger Transportation; Motor Freight Transportation and Warehousing; United States Postal Service; Petroleum Bulk Stations and Terminals | 4212 |
| <input type="checkbox"/> | AA - FABRICATED METAL PRODUCTS | AA1 - Fabricated Metal Products, Except Machinery and Transportation Equipment, and Coating, Engraving, and Allied Services; Jewelry, Silverware, and Plated Ware | 3499 |

Federal Effluent Limitation Guidelines:

Identify the Effluent Limitation Guideline(s) that apply to your stormwater discharges.

There are no guidelines associated with the sector(s) selected in this discharge point.

Are you requesting permit coverage for any stormwater discharges subject to effluent limitation guidelines? No

Latitude/Longitude: 35.867859°N, 106.292992°W

This discharge point is *Substantially Identical* to an existing discharge point.

Receiving Water

GNIS Name:

Waterbody Name:

Listed Water ID:

Is this receiving water saltwater or freshwater? Freshwater

Is this receiving water designated by the state or tribal authority under its antidegradation policy as a Tier 2 (or Tier 2.5) water (water quality exceeds levels necessary to support propagation of fish, shellfish, and wildlife and recreation in and on the water)?

No

Will you have stormwater discharges from paved surfaces that will be initially sealed or re-sealed with coal-tar sealcoat where industrial activities are located during coverage under this permit?

No

Benchmark Monitoring

Are you subject to benchmark monitoring requirements for a hardness-dependent metal? No

Impaired Waters Monitoring

NOTE: The information automatically populated in this section may be outdated and inaccurate (i.e. determining if the receiving water is listed as impaired on the 303(d) list, the cause(s) of the impairment if impaired, the pollutant(s)). It is recommended that you consult with your state's guidance for discharges into impaired waters to determine whether the receiving water is listed as impaired and, if so, the correct causes for the impairment and pollutant(s), and update the information accordingly.

Is the receiving water listed as impaired on the 303(d) list? Yes

| Cause of Impairment Group | Pollutant | Units | Monitoring Required? | TMDL Completed? |
|----------------------------------|----------------------------------|----------------------|----------------------|-----------------|
| METALS (OTHER THAN MERCURY) | Aluminum, total recoverable | Micrograms per Liter | <u>Yes</u> | <u>No</u> |
| POLYCHLORINATED BIPHENYLS (PCBS) | Polychlorinated biphenyls [PCBs] | Milligrams per Liter | <u>Yes</u> | <u>No</u> |
| METALS (OTHER THAN MERCURY) | Copper, dissolved [as Cu] | Micrograms per Liter | <u>Yes</u> | <u>No</u> |

Discharge Point 076: TA-3-38 Metals Fab Shop

Applicable Sectors

Select the Sectors/Subsector(s) that apply to this discharge point.

| | Sector | Subsector | SIC/Activity Code |
|-------------------------------------|---|---|-------------------|
| <input type="checkbox"/> | D - ASPHALT PAVING AND ROOFING MATERIALS AND LUBRICANTS | D1 - Asphalt Paving and Roofing Materials | 2951 |
| <input type="checkbox"/> | N - SCRAP RECYCLING FACILITIES | N2 - Source-separated Recycling Facility | 5093 |
| <input checked="" type="checkbox"/> | AA - FABRICATED METAL PRODUCTS | AA1 - Fabricated Metal Products, Except Machinery and Transportation Equipment, and | 3499 |

| | | | |
|--------------------------|---|---|------|
| | PRODUCTS | Coating, Engraving, and Allied Services; Jewelry, Silverware, and Plated Ware | |
| <input type="checkbox"/> | P - LAND TRANSPORTATION AND WAREHOUSING | P1 - Railroad Transportation; Local and Highway Passenger Transportation; Motor Freight Transportation and Warehousing; United States Postal Service; Petroleum Bulk Stations and Terminals | 4212 |

Federal Effluent Limitation Guidelines:

Identify the Effluent Limitation Guideline(s) that apply to your stormwater discharges.

There are no guidelines associated with the sector(s) selected in this discharge point.

Are you requesting permit coverage for any stormwater discharges subject to effluent limitation guidelines? No

Latitude/Longitude: 35.875851°N, 106.327924°W

This discharge point is *Substantially Identical* to an existing discharge point.

Receiving Water

GNIS Name:

Waterbody Name:

Listed Water ID:

SANDIA CANYON (SIGMA CANYON TO
NPDES OUTFALL 001)

NM-9000.A_047

Is this receiving water saltwater or freshwater? Freshwater

Is this receiving water designated by the state or tribal authority under its antidegradation policy as a Tier 2 (or Tier 2.5) water (water quality exceeds levels necessary to support propagation of fish, shellfish, and wildlife and recreation in and on the water)?

No

Will you have stormwater discharges from paved surfaces that will be initially sealed or re-sealed with coal-tar sealcoat where industrial activities are located during coverage under this permit?

No

Benchmark Monitoring

Are you subject to benchmark monitoring requirements for a hardness-dependent metal? Yes

➔ What is the hardness of your receiving water(s)? 61

(mg/L)

Impaired Waters Monitoring

NOTE: The information automatically populated in this section may be outdated and inaccurate (i.e. determining if the receiving water is listed as impaired on the 303(d) list, the cause(s) of the impairment if impaired, the pollutant(s)). It is recommended that you consult with your state's guidance for discharges into impaired waters to determine whether the receiving water is listed as impaired and, if so, the correct causes for the impairment and pollutant(s), and update the information accordingly.

Is the receiving water listed as impaired on the 303(d) list? Yes

| Cause of Impairment Group | Pollutant | Units | Monitoring Required? | TMDL Completed? |
|----------------------------------|----------------------------------|----------------------|----------------------|-----------------|
| POLYCHLORINATED BIPHENYLS (PCBS) | Polychlorinated biphenyls [PCBs] | Milligrams per Liter | <u>Yes</u> | <u>No</u> |

| | | | | |
|-----------------------------|-----------------------------|----------------------|------------|-----------|
| METALS (OTHER THAN MERCURY) | Aluminum, total recoverable | Micrograms per Liter | <u>Yes</u> | <u>No</u> |
| METALS (OTHER THAN MERCURY) | Copper, dissolved [as Cu] | Micrograms per Liter | <u>Yes</u> | <u>No</u> |

Discharge Point 077: TA-3-38 Metals Fab Shop

Applicable Sectors

Select the Sectors/Subsector(s) that apply to this discharge point.

| | Sector | Subsector | SIC/Activity Code |
|-------------------------------------|---|---|-------------------|
| <input type="checkbox"/> | D - ASPHALT PAVING AND ROOFING MATERIALS AND LUBRICANTS | D1 - Asphalt Paving and Roofing Materials | 2951 |
| <input type="checkbox"/> | N - SCRAP RECYCLING FACILITIES | N2 - Source-separated Recycling Facility | 5093 |
| <input checked="" type="checkbox"/> | AA - FABRICATED METAL PRODUCTS | AA1 - Fabricated Metal Products, Except Machinery and Transportation Equipment, and Coating, Engraving, and Allied Services; Jewelry, Silverware, and Plated Ware | 3499 |
| <input type="checkbox"/> | P - LAND TRANSPORTATION AND WAREHOUSING | P1 - Railroad Transportation; Local and Highway Passenger Transportation; Motor Freight Transportation and Warehousing; United States Postal Service; Petroleum Bulk Stations and Terminals | 4212 |

Federal Effluent Limitation Guidelines:

Identify the Effluent Limitation Guideline(s) that apply to your stormwater discharges.

There are no guidelines associated with the sector(s) selected in this discharge point.

Are you requesting permit coverage for any stormwater discharges subject to effluent limitation guidelines? No

Latitude/Longitude: 35.869722°N, 106.300833°W

This discharge point is *Substantially Identical* to an existing discharge point.

Receiving Water

GNIS Name:

Waterbody Name:

SANDIA CANYON (SIGMA CANYON TO
NPDES OUTFALL 001)

Listed Water ID:

NM-9000.A_047

Is this receiving water saltwater or freshwater? Freshwater

Is this receiving water designated by the state or tribal authority under its antidegradation policy as a Tier 2 (or Tier 2.5) water (water quality exceeds levels necessary to support propagation of fish, shellfish, and wildlife and recreation in and on the water)?

No

Will you have stormwater discharges from paved surfaces that will be initially sealed or re-sealed with coal-tar sealcoat where industrial activities are located during coverage under this permit?

No

Benchmark Monitoring

Are you subject to benchmark monitoring requirements for a hardness-dependent metal? Yes

➔ What is the hardness of your receiving water(s)? 61

(mg/L)

Impaired Waters Monitoring

NOTE: The information automatically populated in this section may be outdated and inaccurate (i.e. determining if the receiving water is listed as impaired on the 303(d) list, the cause(s) of the impairment if impaired, the pollutant(s)). It is recommended that you consult with your state's guidance for discharges into impaired waters to determine whether the receiving water is listed as impaired and, if so, the correct causes for the impairment and pollutant(s), and update the information accordingly.

Is the receiving water listed as impaired on the 303(d) list? Yes

| Cause of Impairment Group | Pollutant | Units | Monitoring Required? | TMDL Completed? |
|----------------------------------|----------------------------------|----------------------|----------------------|-----------------|
| POLYCHLORINATED BIPHENYLS (PCBS) | Polychlorinated biphenyls [PCBs] | Milligrams per Liter | <u>Yes</u> | <u>No</u> |
| METALS (OTHER THAN MERCURY) | Aluminum, total recoverable | Micrograms per Liter | <u>Yes</u> | <u>No</u> |
| METALS (OTHER THAN MERCURY) | Copper, dissolved [as Cu] | Micrograms per Liter | <u>Yes</u> | <u>No</u> |

Discharge Point 078: TA-16 Stockpile Yard

Applicable Sectors

Select the Sectors/Subsector(s) that apply to this discharge point.

| | Sector | Subsector | SIC/Activity Code |
|-------------------------------------|---|---|-------------------|
| <input type="checkbox"/> | D - ASPHALT PAVING AND ROOFING MATERIALS AND LUBRICANTS | D1 - Asphalt Paving and Roofing Materials | 2951 |
| <input type="checkbox"/> | N - SCRAP RECYCLING FACILITIES | N2 - Source-separated Recycling Facility | 5093 |
| <input type="checkbox"/> | AA - FABRICATED METAL PRODUCTS | AA1 - Fabricated Metal Products, Except Machinery and Transportation Equipment, and Coating, Engraving, and Allied Services; Jewelry, Silverware, and Plated Ware | 3499 |
| <input checked="" type="checkbox"/> | P - LAND TRANSPORTATION AND WAREHOUSING | P1 - Railroad Transportation; Local and Highway Passenger Transportation; Motor Freight Transportation and Warehousing; United States Postal Service; Petroleum Bulk Stations and Terminals | 4212 |

Federal Effluent Limitation Guidelines:

Identify the Effluent Limitation Guideline(s) that apply to your stormwater discharges.

There are no guidelines associated with the sector(s) selected in this discharge point.

Are you requesting permit coverage for any stormwater discharges subject to effluent limitation guidelines? No

Latitude/Longitude: 35.846944°N, 106.344722°W

This discharge point is *Substantially Identical* to an existing discharge point.

Receiving Water

GNIS Name:

Waterbody Name:

Listed Water ID:

CAÑON DE VALLE (BELOW LANL GAGE
E256)

NM-128.A_01

Is this receiving water saltwater or freshwater? Freshwater

Is this receiving water designated by the state or tribal authority under its antidegradation policy as a Tier 2 (or Tier 2.5) water (water quality exceeds levels necessary to support propagation of fish, shellfish, and wildlife and recreation in and on the water)?

No

Will you have stormwater discharges from paved surfaces that will be initially sealed or re-sealed with coal-tar sealcoat where industrial activities are located during coverage under this permit?

No

Benchmark Monitoring

Are you subject to benchmark monitoring requirements for a hardness-dependent metal? No

Impaired Waters Monitoring

NOTE: The information automatically populated in this section may be outdated and inaccurate (i.e. determining if the receiving water is listed as impaired on the 303(d) list, the cause(s) of the impairment if impaired, the pollutant(s)). It is recommended that you consult with your state's guidance for discharges into impaired waters to determine whether the receiving water is listed as impaired and, if so, the correct causes for the impairment and pollutant(s), and update the information accordingly.

Is the receiving water listed as impaired on the 303(d) list? Yes

| Cause of Impairment Group | Pollutant | Units | Monitoring Required? | TMDL Completed? |
|---------------------------|-----------------------|----------------------|----------------------|-----------------|
| RADIATION | Alpha, gross adjusted | Picocuries per Liter | <u>Yes</u> | <u>No</u> |

Discharge Point 079: TA-9-214 Metals Fabrication Shop

Applicable Sectors

Select the Sectors/Subsector(s) that apply to this discharge point.

| SIC/Activity |
|--------------|
|--------------|

| | Sector | Subsector | Code |
|-------------------------------------|---|---|------|
| <input type="checkbox"/> | D - ASPHALT PAVING AND ROOFING MATERIALS AND LUBRICANTS | D1 - Asphalt Paving and Roofing Materials | 2951 |
| <input type="checkbox"/> | N - SCRAP RECYCLING FACILITIES | N2 - Source-separated Recycling Facility | 5093 |
| <input checked="" type="checkbox"/> | AA - FABRICATED METAL PRODUCTS | AA1 - Fabricated Metal Products, Except Machinery and Transportation Equipment, and Coating, Engraving, and Allied Services; Jewelry, Silverware, and Plated Ware | 3499 |
| <input type="checkbox"/> | P - LAND TRANSPORTATION AND WAREHOUSING | P1 - Railroad Transportation; Local and Highway Passenger Transportation; Motor Freight Transportation and Warehousing; United States Postal Service; Petroleum Bulk Stations and Terminals | 4212 |

Federal Effluent Limitation Guidelines:

Identify the Effluent Limitation Guideline(s) that apply to your stormwater discharges.

There are no guidelines associated with the sector(s) selected in this discharge point.

Are you requesting permit coverage for any stormwater discharges subject to effluent limitation guidelines? No

Latitude/Longitude: 35.85678°N, 106.345631°W

This discharge point is *Substantially Identical* to an existing discharge point.

Receiving Water

GNIS Name:

Waterbody Name:

ARROYO DE LA DELFE (ABOVE KIELING
SPRING TO HEADW)

Listed Water ID:

NM-128.A_16

Is this receiving water saltwater or freshwater? Freshwater

Is this receiving water designated by the state or tribal authority under its antidegradation policy as a Tier 2 (or Tier 2.5) water (water quality exceeds levels necessary to support propagation of fish, shellfish, and wildlife and recreation in and on the water)?

No

Will you have stormwater discharges from paved surfaces that will be initially sealed or re-sealed with coal-tar sealcoat where industrial activities are located during coverage under this permit?

No

Benchmark Monitoring

Are you subject to benchmark monitoring requirements for a hardness-dependent metal? Yes

➔ What is the hardness of your receiving water(s)? 28

(mg/L)

Impaired Waters Monitoring

NOTE: The information automatically populated in this section may be outdated and inaccurate (i.e. determining if the receiving water is listed as impaired on the 303(d) list, the cause(s) of the impairment if impaired, the pollutant(s)). It is recommended that you consult with your state's guidance for discharges into impaired waters to determine whether the receiving water is listed as impaired and, if so, the correct causes for the impairment and pollutant(s), and update the information accordingly.

Is the receiving water listed as impaired on the 303(d) list? Yes

| Cause of Impairment Group | Pollutant | Units | Monitoring Required? | TMDL Completed? |
|----------------------------------|----------------------------------|----------------------|----------------------|-----------------|
| POLYCHLORINATED BIPHENYLS (PCBS) | Polychlorinated biphenyls [PCBs] | Milligrams per Liter | <u>Yes</u> | <u>No</u> |
| METALS (OTHER THAN MERCURY) | Aluminum, total recoverable | Micrograms per Liter | <u>Yes</u> | <u>No</u> |
| METALS (OTHER THAN MERCURY) | Copper, dissolved [as Cu] | Micrograms per Liter | <u>Yes</u> | <u>No</u> |
| RADIATION | Alpha, gross adjusted | Picocuries per Liter | <u>Yes</u> | <u>No</u> |

Discharge Point 084: TA-60 Roads and Grounds

Applicable Sectors

Select the Sectors/Subsector(s) that apply to this discharge point.

| | Sector | Subsector | SIC/Activity Code |
|-------------------------------------|---|---|-------------------|
| <input type="checkbox"/> | D - ASPHALT PAVING AND ROOFING MATERIALS AND LUBRICANTS | D1 - Asphalt Paving and Roofing Materials | 2951 |
| <input type="checkbox"/> | N - SCRAP RECYCLING FACILITIES | N2 - Source-separated Recycling Facility | 5093 |
| <input type="checkbox"/> | AA - FABRICATED METAL PRODUCTS | AA1 - Fabricated Metal Products, Except Machinery and Transportation Equipment, and Coating, Engraving, and Allied Services; Jewelry, Silverware, and Plated Ware | 3499 |
| <input checked="" type="checkbox"/> | P - LAND TRANSPORTATION AND WAREHOUSING | P1 - Railroad Transportation; Local and Highway Passenger Transportation; Motor Freight Transportation and Warehousing; United States Postal Service; Petroleum Bulk Stations and Terminals | 4212 |

Federal Effluent Limitation Guidelines:

Identify the Effluent Limitation Guideline(s) that apply to your stormwater discharges.

There are no guidelines associated with the sector(s) selected in this discharge point.

Are you requesting permit coverage for any stormwater discharges subject to effluent limitation guidelines? No

Latitude/Longitude: 35.867771°N, 106.291467°W

This discharge point is *Substantially Identical* to an existing discharge point.

Receiving Water

GNIS Name:

Waterbody Name:

Listed Water ID:

Is this receiving water saltwater or freshwater? Freshwater

Is this receiving water designated by the state or tribal authority under its antidegradation policy as a Tier 2 (or Tier 2.5) water (water quality exceeds levels necessary to support propagation of fish, shellfish, and wildlife and recreation in and on the water)?

No

Will you have stormwater discharges from paved surfaces that will be initially sealed or re-sealed with coal-tar sealcoat where industrial activities are located during coverage under this permit?

No

Benchmark Monitoring

Are you subject to benchmark monitoring requirements for a hardness-dependent metal? No

Impaired Waters Monitoring

NOTE: The information automatically populated in this section may be outdated and inaccurate (i.e. determining if the receiving water is listed as impaired on the 303(d) list, the cause(s) of the impairment if impaired, the pollutant(s)). It is recommended that you consult with your state's guidance for discharges into impaired waters to determine whether the receiving water is listed as impaired and, if so, the correct causes for the impairment and pollutant(s), and update the information accordingly.

Is the receiving water listed as impaired on the 303(d) list? Yes

| Cause of Impairment Group | Pollutant | Units | Monitoring Required? | TMDL Completed? |
|----------------------------------|----------------------------------|----------------------|----------------------|-----------------|
| METALS (OTHER THAN MERCURY) | Aluminum, total recoverable | Micrograms per Liter | <u>Yes</u> | <u>No</u> |
| METALS (OTHER THAN MERCURY) | Copper, dissolved [as Cu] | Micrograms per Liter | <u>Yes</u> | <u>No</u> |
| POLYCHLORINATED BIPHENYLS (PCBS) | Polychlorinated biphenyls [PCBs] | Milligrams per Liter | <u>Yes</u> | <u>No</u> |

SWPPP Information

Has the SWPPP been prepared in advance of filing this NOI, as required? Yes

SWPPP Contact Information:

First Name Middle Initial Last Name: Holly . Wheeler

Phone: 5056671312 Ext.:

Email: hbenson@lanl.gov

SWPPP Availability:

Your current SWPPP or certain information from your SWPPP must be made available through one of the following three options. Select one of the options and provide the required information.

Note: you are not required to post any confidential business information (CBI) or restricted information (as defined in Appendix A (https://www.epa.gov/sites/production/files/2021-01/documents/2021_msgp_-_appendix_a_-_definitions.pdf)) (such information may be redacted), but you must clearly identify those portions of the SWPPP that are being withheld from public access.

Option 1: Attach a current copy of your SWPPP to this NOI.

Option 2: Maintain a Current Copy of your SWPPP on an Internet page (Universal Resource Locator or URL).

Provide the web address URL (e.g. <http://www.example.com>): <https://epr.lanl.gov>

Option 3: Provide the following information from your SWPPP:

Endangered Species Protection Worksheet: Criterion D

The following questions will help you determine your eligibility under Part 1.1.4 of the permit with respect to protection of Endangered Species Act (ESA) species and critical habitat(s). Please refer to Appendix E (https://www.epa.gov/sites/production/files/2021-01/documents/2021_msgp_-_appendix_e_-_procedures_relating_to_endangered_species_protection.pdf) of the 2021 MSGP for important information regarding your obligations under this permit concerning ESA-protected species and critical habitat(s).

Determine ESA Eligibility Criterion

Are your industrial activities already addressed in another operator's valid certification of eligibility for your "action area" under eligibility criteria A, C, D, or E of the 2021 MSGP?

No

Has consultation between you, a Federal Agency, and the USFWS and/or the NMFS under section 7 of the Endangered Species Act (ESA) concluded?

Consultations can be either formal or informal, and would have occurred only as a result of a separate federal action (e.g., during application for an individual wastewater discharge permit or the issuance of a wetlands dredge and fill permit), and the consultation must have addressed the effects of your industrial activity's discharges and discharge-related activities on ESA-listed species and/or critical habitat under the jurisdiction of USFWS and/or NMFS in your action area.

Yes

➔ **The result of the consultation was either:**

- i. A biological opinion and/or conference opinion that concludes that the action in question (taking into account the effects of your facility's discharges and discharge-related activities) is not likely to jeopardize the continued existence of ESA-listed species or result in the destruction or adverse modification of critical habitat. The biological opinion and/or conference opinion must have included the effects of your facility's discharges and discharge-related activities on all the listed species and critical habitat in your action area. To be eligible under (i), any reasonable and prudent measures specified in the incidental take statement must be implemented;
- ii. Written concurrence (e.g., letter of concurrence) from the applicable Service(s) with a finding that your facility's discharges and discharge-related activities are not likely to adversely affect ESA-listed species or critical habitat. The concurrence letter must have included the effects of your facility's discharges and discharge-related activities on all the ESA-listed species and/or critical habitat on your species list(s) acquired from the USFWS and/or the NMFS as part of this worksheet.

True

➔ **The consultation does not warrant reinitiation under 50 CFR §402.16; or, if reinitiation of consultation is required (e.g., due to a new species listing or critical habitat designation; new information), you have reinitiated the consultation and the result of the consultation is consistent with the statements above.**

True

You are eligible under **Criterion D**

Identify the federal action agency(ies) involved:

U.S. Fish and Wildlife Services

National Marine Fisheries Service

Provide the field office/regional office(s) providing that consultation and any tracking numbers of identifiers associated with that consultation (e.g., IPaC number, ECO number):

New Mexico Ecological Services Field Office, Cons. # 2-22-98-I-336, Cons. # 2-22-95-I-108, Cons. # 02ENNM00-2014-I-0014, Cons. # 02ENNM00-2015-I-0538

Provide the date the consultation was completed: 08/06/2015

You must attach copies of any letters or other communications with the USFWS or NMFS:

| Name | Uploaded Date | Size |
|--|---------------|-----------|
|  Concurrence_8DEC2013_Biological Assessment of Jemez Mtn Salamander site Plan (2).pdf (attachment/806504) | 05/19/2021 | 239.87 KB |
|  2015-0538_USFWS Concurrence Letter_8-2015.pdf (attachment/806503) | 05/19/2021 | 94.97 KB |
|  1999 HMP Concurrence Letter USFWS to DOE.pdf (attachment/806502) | 05/19/2021 | 276.65 KB |

Historic Preservation: Criterion B

The following questions will help you determine your eligibility under Part 1.1.5 of the permit with respect to preservation of historic properties. You may still use the paper instructions in Appendix F (https://www.epa.gov/sites/production/files/2021-01/documents/2021_msgp_-_appendix_f_-_procedures_relating_to_historic_properties_preservation.pdf) of the MSGP in advance or in conjunction with answering the questions in this section of the form. For more information about your State Historic Preservation Office (SHPO) or Tribal Historic Preservation Office (THPO), please visit the National Park Service (NPS) websites at:

- State Historic Preservation Office (SHPO) (<https://www.nps.gov/subjects/nationalregister/state-historic-preservation-offices.htm>)
- Tribal Historic Preservation Office (THPO) (<https://www.nps.gov/subjects/historicpreservationfund/tribal-historic-preservation-office-program.htm>)

Are you an existing facility that is resubmitting for certification under the 2021 MSGP? Yes

➔ If you are an existing facility you should have already addressed National Historic Preservation Act (NHPA) issues. To gain coverage under the 2015 MSGP, you were required to certify that you were either not affecting historic properties or had obtained written agreement from the relevant SHPO or THPO regarding methods of mitigating potential impacts.

Will you be constructing or installing any new stormwater control measures? Yes

➔ Will the stormwater control measures you are constructing or installing disturb subsurface less than one (1) acre? Yes

Have prior earth disturbances determined that historic properties do not exist, or have prior disturbances precluded the existence of historic properties?
Yes

You are eligible under **Criterion B**.

Additional Supporting Information

Use this section to provide additional information you feel is pertinent to your coverage or to provide information in a Change NOI for a numeric effluent limitation exceedance as required in part 4.2.3.3. of the permit.

Do you have supporting information you would like to add? Yes

Enter Supporting Information

| Date | Additional Information Details |
|------------|---|
| 09/20/2022 | In the Facility Information section of this Change NOI, the total estimated area of industrial activity is revised from 39.75 acres to 38.75 acres. |
| 09/20/2022 | The 2022-2024 State of New Mexico CWA 303(d)/305(b) Integrated Report was approved by EPA on April 26, 2022. In that report, the Assessment Unit description for NM-128.A_16 was changed from Arroyo de la Delfe (Pajarito Canyon to headwaters) to Arroyo de la Delfe (Above Kieling Spring to headwaters). In the Discharge Information section of this Change NOI, the Assessment Unit description was updated to reflect this change for discharge point 079. https://cloud.env.nm.gov/water/pages/view.php?ref=8234&k=c19431341b |
| 09/20/2022 | The 2022-2024 State of New Mexico CWA 303(d)/305(b) Integrated Report was approved by EPA on April 26, 2022. In that report, Mercury (total) was delisted from NM- 9000.A_042 - Mortandad Canyon (within LANL). In the Discharge Information section of this Change NOI, Mercury (total) was changed to "Monitoring Not Required" for discharge points 031 and 043, and SIDP 030. https://cloud.env.nm.gov/water/pages/view.php?ref=8234&k=c19431341b |
| 09/19/2022 | At Outfall 043, a single TSS result of 70.3 mg/L exceeded the ELG Daily Max limit of 23.0 mg/L and Monthly Avg limit of 15 mg/L. This exceedance is being reported on this Change NOI as required by Part 4.2.3.3. |

Certification Information

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I have no personal knowledge that the information submitted is other than true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. Signing an electronic document on behalf of another person is subject to criminal, civil, administrative, or other lawful action.

Certified By: Jennifer payne

Certifier Title: Division Leader

Certifier Email: jpayne@lanl.gov

Certified On: 09/30/2022 6:31 PM ET

From: no-reply@epacdx.net
To: no-reply@epacdx.net
Subject: [EXTERNAL] EPA Multi-Sector General Permit (MSGP) Authorization for: LOS ALAMOS NATIONAL LABORATORY - NPDES Number: NMR050013
Date: Friday, June 25, 2021 4:00:27 PM
Attachments: [ATT00001.png](#)



2021-06-25

The Environmental Protection Agency (EPA) has received a Notice of Intent (NOI) requesting coverage under the [EPA 2021 Multi-Sector General Permit](#) (2021 MSGP). A copy of the NOI can be found [here](#). The discharge authorization date for Triad National Security LLC to discharge stormwater and allowable non-stormwater associated with industrial activity at LOS ALAMOS NATIONAL LABORATORY located at PO BOX 1663, MS K490, LOS ALAMOS, NM 87545 under the 2021 MSGP is 06/25/2021. For tracking and inquiry purposes, your NPDES ID is NMR050013.

As you know, the 2021 MSGP requires that you develop a Stormwater Pollution Prevention Plan (SWPPP) prior to submitting your NOI. You should keep this email, along with any other correspondence with EPA, with your SWPPP at the facility as verification of coverage (see Part 6). All relevant provisions of the 2021 MSGP must be met, and any permit noncompliance constitutes a violation of the permit and the Clean Water Act (CWA).

The 2021 MSGP includes specific requirements for the implementation of stormwater control measures to minimize pollutant discharges and meet the permit's effluent limitations (e.g., minimizing exposure, good housekeeping, maintenance activities, spill prevention and response, employee training). The permit also requires conducting facility inspections and visual assessments of your discharges, and taking corrective actions and Additional Implementation Measures (AIM) as necessary. You must comply with any additional sector-specific requirements applicable to your industrial sector(s) in Part 8, any state- or tribal-specific requirements in Part 9, and any additional monitoring required by EPA pursuant to Part 4.2.6 (see <https://www.epa.gov/npdes/stormwater-discharges-industrial-activities#msgp>).

You are also required to submit an Annual Report in accordance with Part 7.4 of the MSGP that will contain the results from your past calendar year's routine facility inspections, quarterly visual assessments, and corrective actions including any required AIM documentation. Annual Reports must be submitted to EPA by January 30th each year via EPA's NPDES e-Reporting Tool (NeT) which can be accessed at <https://npdes-ereporting.epa.gov/net-msgp>.

The 2021 MSGP includes six types of analytical monitoring, one or more of which will now apply to your discharges:

- Indicator monitoring (see Part 4.2.1 and Part 8);
- Benchmark monitoring (see Part 4.2.2 and Part 8);
- Effluent limitations guidelines monitoring (see Part 4.2.3 and Part 8);
- State- or tribal-specific monitoring (see Part 4.2.4 and Part 9);
- Impaired waters monitoring (see Part 4.2.5); and

- Other monitoring as required by EPA (see Part 4.2.6).

You will receive a separate notification summarizing your monitoring and reporting requirements.

Please note that this email only confirms the receipt of a complete NOI and does not represent a determination by EPA regarding the validity of the information you provided in your NOI. Your electronic signature on the NOI form certifies that you have correctly determined that you are eligible for coverage under this permit and the information is true, accurate, and complete to the best of your knowledge. Discharges are not authorized if your NOI is inaccurate or if you were never eligible for permit coverage.

If you have questions about this email or about NeT, please refer to the [NeT Help Center](#) or call 877-227-8965 or e-mail NPDESreporting@epa.gov for assistance.

This is an automated response; please do not reply to this email.

From: no-reply@epacdx.net
To: no-reply@epacdx.net
Subject: [EXTERNAL] EPA NeT MSGP Form Certified: LOS ALAMOS NATIONAL LABORATORY - NPDES ID: NMR050013
Date: Wednesday, May 26, 2021 3:42:07 PM

2021-05-26

Dear NeT User,

Jennifer payne successfully certified the following forms under the MSGP:

| NPDES ID | Form Type | Operator | Facility Name | Year | Review Date Target End |
|-----------|-----------|-----------------------------|--------------------------------|------|------------------------|
| NMR050013 | Renew NOI | Triad National Security LLC | LOS ALAMOS NATIONAL LABORATORY | n/a | 06/25/2021 |

A copy of the submission can be found [here](#).

If you have questions about this email or about the NPDES Electronic Reporting Tool (NeT), please refer to the [NeT Help Center](#) or e-mail NPDESereporting@epa.gov for assistance.

This is an automated notification; please do not reply to this email.

From: no-reply@epacdx.net
To: no-reply@epacdx.net
Subject: [EXTERNAL] Summary of Analytical Monitoring and Reporting Requirements for LOS ALAMOS NATIONAL LABORATORY - NPDES ID: NMR050013 - Discharge Authorization Date: 06/25/2021
Date: Friday, June 25, 2021 4:00:27 PM

2021-06-25

This email serves as a reminder that the Operator of LOS ALAMOS NATIONAL LABORATORY located at PO BOX 1663, MS K490, LOS ALAMOS, NM 87545 has active permit coverage under the EPA [2021 Multi-Sector General Permit \(MSGP\)](#) and is required to complete analytical monitoring of its discharges and electronically submit results in Discharge Monitoring Reports (DMRs) using NetDMR, EPA's electronic DMR system, in accordance with Part 7.3.1 of the 2021 MSGP (for more information visit: <https://www.epa.gov/compliance/npdes-ereporting>).

Per Part 4.1.7 of the 2021 MSGP, monitoring requirements will begin in the first full calendar quarter following your date of discharge authorization. The quarters are defined as (unless modified in accordance with Part 4.1.6):

- January 1 - March 31
- April 1 - June 30
- July 1 - September 30
- October 1 - December 31

Your monitoring requirements (i.e., parameters required to be analyzed, quantification units, and sampling frequency) will be prepopulated on your electronic DMR form and can be reviewed in NetDMR, which is accessible through the EPA's Central Data Exchange (CDX) at <https://cdxnodengn.epa.gov/net-netdmr/> using your Central Data Exchange (CDX) account User ID and Password. For more information on adding the NetDMR program service or accessing your facility in NetDMR, please visit the [NetDMR Support Portal](#).

The DMRs in NetDMR are generated based on information (i.e., subsector(s), impairment status of receiving waters, applicability of effluent limitation guidelines (ELG), and location) reported for your facility in the Notice of Intent (NOI) submitted to EPA on 05/26/2021 via the NPDES e-Reporting Tool Multi Sector General Permit (NeT MSGP). A copy of the NOI can be found [here](#). Once you have access to NetDMR, carefully review your facility's electronic DMRs to ensure that they reflect the monitoring requirements as outlined in [Part 4](#) of the 2021 MSGP; [Part 8](#), which provides sector-specific Indicator, Benchmark, and applicable ELG parameters; and [Part 9](#), which provides specific monitoring requirements, if any, that apply in individual states and Indian country. Please contact your EPA Regional Authority immediately if you notice any discrepancies. A list of EPA Regional contacts is provided in the [NeT Help Center](#).

Listed below is a summary of your monitoring requirements:

| Discharge Point | Sector | Subsector | SIC | Monitoring Type | Frequency | Monitoring Start Date | Initial DMR Due Date |
|-----------------|--------|-----------|-----|-----------------|-----------|-----------------------|----------------------|
| | | | | Indicator | | | |

| | | | | | | | |
|-----|----|-----|------|-------------------------------------|-----------|------------|------------|
| 039 | P | P1 | 4212 | Monitoring - COD, TSS, pH | Quarterly | 2021-07-01 | 2021-10-30 |
| 039 | | | | Impaired Waters | Annual | 2021-07-01 | 2022-07-31 |
| 032 | P | P1 | 4212 | Indicator Monitoring - COD, TSS, pH | Quarterly | 2021-07-01 | 2021-10-30 |
| 032 | | | | Impaired Waters | Annual | 2021-07-01 | 2022-07-31 |
| 043 | D | D1 | 2951 | ELG | Annual | 2021-07-01 | 2022-07-31 |
| 043 | D | D1 | 2951 | Benchmark | Quarterly | 2021-07-01 | 2021-10-30 |
| 043 | | | | Impaired Waters | Annual | 2021-07-01 | 2022-07-31 |
| 043 | | | | Indicator Monitoring - PAH | Bi-Annual | 2021-07-01 | 2022-01-30 |
| 031 | P | P1 | 4212 | Indicator Monitoring - COD, TSS, pH | Quarterly | 2021-07-01 | 2021-10-30 |
| 031 | | | | Impaired Waters | Annual | 2021-07-01 | 2022-07-31 |
| 029 | N | N2 | 5093 | Indicator Monitoring - COD, TSS, pH | Quarterly | 2021-07-01 | 2021-10-30 |
| 029 | | | | Impaired Waters | Annual | 2021-07-01 | 2022-07-31 |
| 075 | P | P1 | 4212 | Indicator Monitoring - COD, TSS, pH | Quarterly | 2021-07-01 | 2021-10-30 |
| 075 | | | | Impaired Waters | Annual | 2021-07-01 | 2022-07-31 |
| 042 | P | P1 | 4212 | Indicator Monitoring - COD, TSS, pH | Quarterly | 2021-07-01 | 2021-10-30 |
| 042 | | | | Impaired Waters | Annual | 2021-07-01 | 2022-07-31 |
| 022 | AA | AA1 | 3499 | Benchmark | Quarterly | 2021-07-01 | 2021-10-30 |
| 022 | P | P1 | 4212 | Indicator Monitoring - COD, TSS, pH | Quarterly | 2021-07-01 | 2021-10-30 |
| | | | | | | | 2022- |

| | | | | | | | |
|-----|----|-----|------|-------------------------------------|-----------|------------|------------|
| 022 | | | | Impaired Waters | Annual | 2021-07-01 | 07-31 |
| 026 | P | P1 | 4212 | Indicator Monitoring - COD, TSS, pH | Quarterly | 2021-07-01 | 2021-10-30 |
| 026 | | | | Impaired Waters | Annual | 2021-07-01 | 2022-07-31 |
| 037 | P | P1 | 4212 | Indicator Monitoring - COD, TSS, pH | Quarterly | 2021-07-01 | 2021-10-30 |
| 037 | | | | Impaired Waters | Annual | 2021-07-01 | 2022-07-31 |
| 076 | AA | AA1 | 3499 | Benchmark | Quarterly | 2021-07-01 | 2021-10-30 |
| 076 | | | | Impaired Waters | Annual | 2021-07-01 | 2022-07-31 |
| 077 | AA | AA1 | 3499 | Benchmark | Quarterly | 2021-07-01 | 2021-10-30 |
| 077 | | | | Impaired Waters | Annual | 2021-07-01 | 2022-07-31 |
| 078 | P | P1 | 4212 | Indicator Monitoring - COD, TSS, pH | Quarterly | 2021-07-01 | 2021-10-30 |
| 078 | | | | Impaired Waters | Annual | 2021-07-01 | 2022-07-31 |
| 079 | AA | AA1 | 3499 | Benchmark | Quarterly | 2021-07-01 | 2021-10-30 |
| 079 | | | | Impaired Waters | Annual | 2021-07-01 | 2022-07-31 |

Please refer to EPA's Industrial Stormwater Monitoring and Sampling Guide at <https://www.epa.gov/npdes/industrial-stormwater-guidance> for guidance about monitoring. The 2021 MSGP and additional guidance are available at: <https://www.epa.gov/npdes/stormwater-discharges-industrial-activities-epas-2021-msgp>.

If you have any questions regarding CDX/NetDMR related content please contact the NPDES E-Reporting HelpDesk at 1-877-227-8965 or by e-mail at NPDESereporting@epa.gov.

This is an automated response; please do not reply to this email.



Permit Information

Master Permit Number: NMR050000

NPDES ID: NMR050013

Eligibility Information

State/territory where your facility is discharging: NM

Does your facility discharge to federally recognized Indian Country lands? No

Are you a "Federal Operator" as defined in Appendix A (https://www.epa.gov/sites/production/files/2021-01/documents/2021_msgp_-_appendix_a_-_definitions.pdf)?

Yes

Which type of form would you like to submit? Notice of Intent (NOI)

By indicating "Yes" below, I confirm that I understand that the MSGP only authorizes the stormwater discharges in Part 1.1.2 and the allowable non-stormwater discharges listed in Part 1.2.2. Any discharges not expressly authorized in this permit cannot become authorized or shielded from liability under CWA section 402(k) by disclosure to EPA, state, or local authorities after issuance of this permit via any means, including the Notice of Intent (NOI) to be covered by the permit, the Stormwater Pollution Prevention Plan (SWPPP), during an inspection, etc. If any discharges requiring NPDES permit coverage other than the allowable stormwater and non-stormwater discharges listed in Parts 1.2.1. and 1.2.2. will be discharged, they must be covered under another NPDES permit.

Yes

Are you a new discharger or a new source as defined in Appendix A (https://www.epa.gov/sites/production/files/2021-01/documents/2021_msgp_-_appendix_a_-_definitions.pdf)?

No

➔ Have stormwater discharges from your facility been covered previously under an NPDES permit? Yes

➔ If yes, provide your most current NPDES ID (i.e., permit tracking number) if you had coverage under EPA's MSGP or the NPDES permit number if you had coverage under an EPA individual permit:

NMR050013

➔ Are you discharging to any waters of the U.S. that are designated by the state or tribal authority under its antidegradation policy as a Tier 3 water (Outstanding National Resource water)? (See Appendix L (https://www.epa.gov/sites/production/files/2021-01/documents/2021_msgp_-_appendix_l_-_list_of_tier_3_tier_2_and_tier_2.5_waters.pdf))

No

Do you anticipate the discharge of groundwater or spring water from your facility? No

What is the legal name of the Operator as defined in Appendix A (https://www.epa.gov/sites/production/files/2021-01/documents/2021_msgp_-_appendix_a_-_definitions.pdf)?

Triad National Security LLC

What is the name of your facility or activity as defined in Appendix A (https://www.epa.gov/sites/production/files/2021-01/documents/2021_msgp_-_appendix_a_-_definitions.pdf)?

LOS ALAMOS NATIONAL LABORATORY

Operator Information

Operator Information

Operator Name: Triad National Security LLC

Operator Mailing Address

Address Line 1: PO Box 1663

Address Line 2: MS K490

City: Los Alamos

ZIP/Postal Code: 87545

State: NM

County or Similar Division: Los Alamos

Operator Point of Contact Information

First Name Middle Initial Last Name: TERRILL . LEMKE

Title: Environmental Manager

Phone: 5056652397

Ext.:

Email: tlemke@lanl.gov

NOI Preparer Information

This NOI is being prepared by someone other than the certifier.

First Name Middle Initial Last Name: Holly L Wheeler

Organization: Triad National Security LLC

Phone: 505-667-1312

Ext.:

Email: hbenson@lanl.gov

Facility Information

Facility Information

Facility Name: LOS ALAMOS NATIONAL LABORATORY

Facility Address

Address Line 1: PO BOX 1663

Address Line 2: MS K490

City: LOS ALAMOS

ZIP/Postal Code: 87545

State: NM

County or Similar Division: Los Alamos

Latitude/Longitude for the Facility

Latitude/Longitude: 35.872777°N, 106.321127°W

Latitude/Longitude Data Source: GIS

Horizontal Reference Datum: WGS 84

General Facility Information

What is the ownership type of the facility? Federal Facility (U.S. Government)

Estimated area of industrial activity at your facility exposed to stormwater (rounded to the nearest quarter acre): 39.75

Is your facility presently inactive and unstaffed? No

Exception for Inactive and Unstaffed Facilities: The requirement for indicator monitoring, impaired waters monitoring, and/or benchmark monitoring does not apply at a facility that is inactive and unstaffed, as long as there are no industrial materials or activities exposed to stormwater.

If circumstances change during the permit term that affect your qualifications for this exception to monitoring requirements (i.e. industrial materials or activities exposure to stormwater or your facility's active/inactive and staffed/unstaffed status) you must submit a NOI notifying EPA of the change in circumstances.

Sector-Specific Information

Primary Sector: P

Primary Subsector: P1

Primary SIC Code: 4212

Co-Located Sectors:

Co-Located Sector: D

Co-Located Subsector: D1

Co-Located SIC Code: 2951

Co-Located Sector: N

Co-Located Subsector: N2

Co-Located SIC Code: 5093

Co-Located Sector: AA

Co-Located Subsector: AA1

Co-Located SIC Code: 3499

Discharge Information

By indicating "Yes" below, I confirm that I understand that the MSGP only authorizes the stormwater discharges in Part 1.2.1 and the allowable non-stormwater discharges listed in Part 1.2.2. Any discharges not expressly authorized in this permit cannot become authorized or shielded from liability under CWA section 402(k) by disclosure to EPA, state, or local authorities after issuance of this permit via any means, including the Notice of Intent (NOI) to be covered by the permit, the Stormwater Pollution Prevention Plan (SWPPP), during an inspection, etc. If any discharges requiring NPDES permit coverage other than the authorized stormwater and non-stormwater discharges listed in Parts 1.2.1 and 1.2.2 will be discharged, they must be covered under another NPDES permit.

Yes

Federal Effluent Limitation Guidelines

Identify the Effluent Limitation Guideline(s) that apply to your stormwater discharges.

| 40 CFR Part/Subpart | Eligible Discharges | Affected MSGP Sector | New Source Date | Applicability |
|---------------------|---|----------------------|-----------------|---|
| Part 443, Subpart A | Runoff from asphalt emulsion facilities | D | 07/28/1975 | <p>Does your facility have any discharges subject to this effluent limitation guideline?</p> <p><u>Yes</u></p> |

Are you requesting permit coverage for any stormwater discharges subject to effluent limitation guidelines? Yes

Other Discharge Information

Do you anticipate the discharge of groundwater or spring water from your facility? No

Does your facility discharge into a Municipal Separate Sewer System (MS4)? No

Receiving Waters Information

List all of the stormwater discharge points from your facility.

Discharge Point 023: TA-60-1 Heavy Equipment Yard SIO to 022

Applicable Sectors

Select the Sectors/Subsector(s) that apply to this discharge point.

| | Sector | Subsector | SIC/Activity Code |
|-------------------------------------|---|---|-------------------|
| <input type="checkbox"/> | D - ASPHALT PAVING AND ROOFING MATERIALS AND LUBRICANTS | D1 - Asphalt Paving and Roofing Materials | 2951 |
| <input type="checkbox"/> | N - SCRAP RECYCLING FACILITIES | N2 - Source-separated Recycling Facility | 5093 |
| <input checked="" type="checkbox"/> | P - LAND TRANSPORTATION AND WAREHOUSING | P1 - Railroad Transportation; Local and Highway Passenger Transportation; Motor Freight Transportation and Warehousing; United States Postal Service; Petroleum Bulk Stations and Terminals | 4212 |
| <input checked="" type="checkbox"/> | AA - FABRICATED METAL PRODUCTS | AA1 - Fabricated Metal Products, Except Machinery and Transportation Equipment, and Coating, Engraving, and Allied Services; Jewelry, Silverware, and Plated Ware | 3499 |

Latitude/Longitude: 35.873193°N, 106.313116°W

This discharge point is *Substantially Identical* to an existing discharge point.

➔ Substantially Identical to Discharge Point ID: 022

Receiving Water

GNIS Name:

Waterbody Name:

SANDIA CANYON (SIGMA CANYON TO NPDES OUTFALL 001)

Listed Water ID:

NM-9000.A_047

Is this receiving water saltwater or freshwater? Freshwater

Is this receiving water designated by the state or tribal authority under its antidegradation policy as a Tier 2 (or Tier 2.5) water (water quality exceeds levels necessary to support propagation of fish, shellfish, and wildlife and recreation in and on the water)?

No

Will you have stormwater discharges from paved surfaces that will be initially sealed or re-sealed with coal-tar sealcoat where industrial activities are located during coverage under this permit?

No

Benchmark Monitoring

Are you subject to benchmark monitoring requirements for a hardness-dependent metal? Yes

➔ What is the hardness of your receiving water(s)? 61

(mg/L)

Impaired Waters Monitoring

NOTE: The information automatically populated in this section for determining if the receiving water is listed as impaired on the 303(d) list and in need of a TMDL, the cause(s) of the impairment if the receiving water is impaired on the CWA 303(d) list, if a TMDL has been completed for the receiving waterbody, and the TMDL ID and pollutants for which there is a TMDL may be outdated and inaccurate. It is recommended that you consult with your state's guidance for discharges into impaired waters to determine the correct pollutants and TMDLS and update the causes for the impairment and TMDL information accordingly.

Is the receiving water listed as impaired on the 303(d) list and in need of a TMDL? Yes

| Cause of Impairment Group | Pollutant |
|----------------------------------|----------------------------------|
| METALS (OTHER THAN MERCURY) | Aluminum, total recoverable |
| POLYCHLORINATED BIPHENYLS (PCBS) | Polychlorinated biphenyls [PCBs] |
| METALS (OTHER THAN MERCURY) | Copper, dissolved [as Cu] |

Has a TMDL been completed for this receiving waterbody? No

Discharge Point 024: TA-60-1 Heavy Equipment Yard SIO to 022

Applicable Sectors

Select the Sectors/Subsector(s) that apply to this discharge point.

| | Sector | Subsector | SIC/Activity Code |
|-------------------------------------|---|---|-------------------|
| <input type="checkbox"/> | D - ASPHALT PAVING AND ROOFING MATERIALS AND LUBRICANTS | D1 - Asphalt Paving and Roofing Materials | 2951 |
| <input type="checkbox"/> | N - SCRAP RECYCLING FACILITIES | N2 - Source-separated Recycling Facility | 5093 |
| <input checked="" type="checkbox"/> | P - LAND TRANSPORTATION AND WAREHOUSING | P1 - Railroad Transportation; Local and Highway Passenger Transportation; Motor Freight Transportation and Warehousing; United States Postal Service; Petroleum Bulk Stations and Terminals | 4212 |
| <input checked="" type="checkbox"/> | AA - FABRICATED METAL PRODUCTS | AA1 - Fabricated Metal Products, Except Machinery and Transportation Equipment, and Coating, Engraving, and Allied Services; Jewelry, Silverware, and Plated Ware | 3499 |

Latitude/Longitude: 35.873046°N, 106.315069°W

This discharge point is *Substantially Identical* to an existing discharge point.

➔ **Substantially Identical to Discharge Point ID:** 022

Receiving Water

GNIS Name:

Waterbody Name:

SANDIA CANYON (SIGMA CANYON TO NPDES OUTFALL 001)

Listed Water ID:

NM-9000.A_047

Is this receiving water saltwater or freshwater? Freshwater

Is this receiving water designated by the state or tribal authority under its antidegradation policy as a Tier 2 (or Tier 2.5) water (water quality exceeds levels necessary to support propagation of fish, shellfish, and wildlife and recreation in and on the water)?

No

Will you have stormwater discharges from paved surfaces that will be initially sealed or re-sealed with coal-tar sealcoat where industrial activities are located during coverage under this permit?

No

Benchmark Monitoring

Are you subject to benchmark monitoring requirements for a hardness-dependent metal? Yes

➔ What is the hardness of your receiving water(s)? 61

(mg/L)

Impaired Waters Monitoring

NOTE: The information automatically populated in this section for determining if the receiving water is listed as impaired on the 303(d) list and in need of a TMDL, the cause(s) of the impairment if the receiving water is impaired on the CWA 303(d) list, if a TMDL has been completed for the receiving waterbody, and the TMDL ID and pollutants for which there is a TMDL may be outdated and inaccurate. It is recommended that you consult with your state's guidance for discharges into impaired waters to determine the correct pollutants and TMDLS and update the causes for the impairment and TMDL information accordingly.

Is the receiving water listed as impaired on the 303(d) list and in need of a TMDL? Yes

| Cause of Impairment Group | Pollutant |
|----------------------------------|----------------------------------|
| POLYCHLORINATED BIPHENYLS (PCBS) | Polychlorinated biphenyls [PCBs] |
| METALS (OTHER THAN MERCURY) | Aluminum, total recoverable |
| METALS (OTHER THAN MERCURY) | Copper, dissolved [as Cu] |

Has a TMDL been completed for this receiving waterbody? No

Discharge Point 039: TA-60 Roads and Grounds

Applicable Sectors

Select the Sectors/Subsector(s) that apply to this discharge point.

| | Sector | Subsector | SIC/Activity Code |
|-------------------------------------|---|---|-------------------|
| <input type="checkbox"/> | D - ASPHALT PAVING AND ROOFING MATERIALS AND LUBRICANTS | D1 - Asphalt Paving and Roofing Materials | 2951 |
| <input type="checkbox"/> | N - SCRAP RECYCLING FACILITIES | N2 - Source-separated Recycling Facility | 5093 |
| <input checked="" type="checkbox"/> | P - LAND TRANSPORTATION AND WAREHOUSING | P1 - Railroad Transportation; Local and Highway Passenger Transportation; Motor Freight Transportation and Warehousing; United States Postal Service; Petroleum Bulk Stations and Terminals | 4212 |
| <input type="checkbox"/> | AA - FABRICATED METAL PRODUCTS | AA1 - Fabricated Metal Products, Except Machinery and Transportation Equipment, and Coating, Engraving, and Allied Services; Jewelry, Silverware, and Plated Ware | 3499 |

Latitude/Longitude: 35.867826°N, 106.291726°W

This discharge point is *Substantially Identical* to an existing discharge point.

Receiving Water

GNIS Name:

Waterbody Name:

SANDIA CANYON (SIGMA CANYON TO
NPDES OUTFALL 001)

Listed Water ID:

NM-9000.A_047

Is this receiving water saltwater or freshwater? Freshwater

Is this receiving water designated by the state or tribal authority under its antidegradation policy as a Tier 2 (or Tier 2.5) water (water quality exceeds levels necessary to support propagation of fish, shellfish, and wildlife and recreation in and on the water)?

No

Will you have stormwater discharges from paved surfaces that will be initially sealed or re-sealed with coal-tar sealcoat where industrial activities are located during coverage under this permit?

No

Benchmark Monitoring

Are you subject to benchmark monitoring requirements for a hardness-dependent metal? No

Impaired Waters Monitoring

NOTE: The information automatically populated in this section for determining if the receiving water is listed as impaired on the 303(d) list and in need of a TMDL, the cause(s) of the impairment if the receiving water is impaired on the CWA 303(d) list, if a TMDL has been completed for the receiving waterbody, and the TMDL ID and pollutants for which there is a TMDL may be outdated and inaccurate. It is recommended that you consult with your state's guidance for discharges into impaired waters to determine the correct pollutants and TMDLS and update the causes for the impairment and TMDL information accordingly.

Is the receiving water listed as impaired on the 303(d) list and in need of a TMDL? Yes

| Cause of Impairment Group | Pollutant |
|----------------------------------|-----------------------------------|
| METALS (OTHER THAN MERCURY) | Aluminum, total recoverable |
| POLYCHLORINATED BIPHENYLS (PCBS) | Poly chlorinated biphenyls [PCBs] |
| METALS (OTHER THAN MERCURY) | Copper, dissolved [as Cu] |

Has a TMDL been completed for this receiving waterbody? No

Discharge Point 032: TA-60 Roads and Grounds

Applicable Sectors

Select the Sectors/Subsector(s) that apply to this discharge point.

| | Sector | Subsector | SIC/Activity Code |
|--------------------------|---|---|-------------------|
| <input type="checkbox"/> | D - ASPHALT PAVING AND ROOFING MATERIALS AND LUBRICANTS | D1 - Asphalt Paving and Roofing Materials | 2951 |

| | | | |
|-------------------------------------|--|--|------|
| <input type="checkbox"/> | N - SCRAP RECYCLING FACILITIES | N2 - Source-separated Recycling Facility | 5093 |
| <input checked="" type="checkbox"/> | P - LAND TRANSPORTATION AND WAREHOUSING | P1 - Railroad Transportation; Local and Highway Passenger Transportation; Motor Freight Transportation and Warehousing; United States Postal Service; Petroleum Bulk Stations and Terminals | 4212 |
| <input type="checkbox"/> | AA - FABRICATED METAL PRODUCTS | AA1 - Fabricated Metal Products, Except Machinery and Transportation Equipment, and Coating, Engraving, and Allied Services; Jewelry, Silverware, and Plated Ware | 3499 |

Latitude/Longitude: 35.870741°N, 106.306812°W

This discharge point is *Substantially Identical* to an existing discharge point.

Receiving Water

GNIS Name:

Waterbody Name:

Listed Water ID:

SANDIA CANYON (SIGMA CANYON TO NPDES OUTFALL 001)

NM-9000.A_047

Is this receiving water saltwater or freshwater? Freshwater

Is this receiving water designated by the state or tribal authority under its antidegradation policy as a Tier 2 (or Tier 2.5) water (water quality exceeds levels necessary to support propagation of fish, shellfish, and wildlife and recreation in and on the water)?

No

Will you have stormwater discharges from paved surfaces that will be initially sealed or re-sealed with coal-tar sealcoat where industrial activities are located during coverage under this permit?

No

Benchmark Monitoring

Are you subject to benchmark monitoring requirements for a hardness-dependent metal? No

Impaired Waters Monitoring

NOTE: The information automatically populated in this section for determining if the receiving water is listed as impaired on the 303(d) list and in need of a TMDL, the cause(s) of the impairment if the receiving water is impaired on the CWA 303(d) list, if a TMDL has been completed for the receiving waterbody, and the TMDL ID and pollutants for which there is a TMDL may be outdated and inaccurate. It is recommended that you consult with your state's guidance for discharges into impaired waters to determine the correct pollutants and TMDLS and update the causes for the impairment and TMDL information accordingly.

Is the receiving water listed as impaired on the 303(d) list and in need of a TMDL? Yes

| Cause of Impairment Group | Pollutant |
|----------------------------------|-----------------------------------|
| POLYCHLORINATED BIPHENYLS (PCBS) | Poly chlorinated biphenyls [PCBs] |
| METALS (OTHER THAN MERCURY) | Aluminum, total recoverable |
| METALS (OTHER THAN MERCURY) | Copper, dissolved [as Cu] |

Has a TMDL been completed for this receiving waterbody? No

Discharge Point 034: TA-60 Roads and Grounds SIO to 032

Applicable Sectors

Select the Sectors/Subsector(s) that apply to this discharge point.

| | Sector | Subsector | SIC/Activity Code |
|-------------------------------------|---|---|-------------------|
| <input type="checkbox"/> | D - ASPHALT PAVING AND ROOFING MATERIALS AND LUBRICANTS | D1 - Asphalt Paving and Roofing Materials | 2951 |
| <input type="checkbox"/> | N - SCRAP RECYCLING FACILITIES | N2 - Source-separated Recycling Facility | 5093 |
| <input checked="" type="checkbox"/> | P - LAND TRANSPORTATION AND WAREHOUSING | P1 - Railroad Transportation; Local and Highway Passenger Transportation; Motor Freight Transportation and Warehousing; United States Postal Service; Petroleum Bulk Stations and Terminals | 4212 |
| <input type="checkbox"/> | AA - FABRICATED METAL PRODUCTS | AA1 - Fabricated Metal Products, Except Machinery and Transportation Equipment, and Coating, Engraving, and Allied Services; Jewelry, Silverware, and Plated Ware | 3499 |

Latitude/Longitude: 35.870603°N, 106.306055°W

This discharge point is *Substantially Identical* to an existing discharge point.

➔ Substantially Identical to Discharge Point ID: 032

Receiving Water

GNIS Name:

Waterbody Name:

SANDIA CANYON (SIGMA CANYON TO NPDES OUTFALL 001)

Listed Water ID:

NM-9000.A_047

Is this receiving water saltwater or freshwater? Freshwater

Is this receiving water designated by the state or tribal authority under its antidegradation policy as a Tier 2 (or Tier 2.5) water (water quality exceeds levels necessary to support propagation of fish, shellfish, and wildlife and recreation in and on the water)?

No

Will you have stormwater discharges from paved surfaces that will be initially sealed or re-sealed with coal-tar sealcoat where industrial activities are located during coverage under this permit?

No

Benchmark Monitoring

Are you subject to benchmark monitoring requirements for a hardness-dependent metal? No

Impaired Waters Monitoring

NOTE: The information automatically populated in this section for determining if the receiving water is listed as impaired on the 303(d) list and in need of a TMDL, the cause(s) of the impairment if the receiving water is impaired on the CWA 303(d) list, if a TMDL has been completed for the receiving waterbody, and the TMDL ID and pollutants for which there is a TMDL may be outdated and inaccurate. It is recommended that you consult with your state's guidance for discharges into impaired waters to determine the correct pollutants and TMDLS and update the causes for the impairment and TMDL information accordingly.

Is the receiving water listed as impaired on the 303(d) list and in need of a TMDL? Yes

| Cause of Impairment Group | Pollutant |
|----------------------------------|-----------------------------------|
| POLYCHLORINATED BIPHENYLS (PCBS) | Poly chlorinated biphenyls [PCBs] |
| METALS (OTHER THAN MERCURY) | Aluminum, total recoverable |
| METALS (OTHER THAN MERCURY) | Copper, dissolved [as Cu] |

Has a TMDL been completed for this receiving waterbody? No

Discharge Point 028: TA-60-2 Warehouse SIO to 026

Applicable Sectors

Select the Sectors/Subsector(s) that apply to this discharge point.

| | Sector | Subsector | SIC/Activity Code |
|-------------------------------------|---|---|-------------------|
| <input type="checkbox"/> | D - ASPHALT PAVING AND ROOFING MATERIALS AND LUBRICANTS | D1 - Asphalt Paving and Roofing Materials | 2951 |
| <input type="checkbox"/> | N - SCRAP RECYCLING FACILITIES | N2 - Source-separated Recycling Facility | 5093 |
| <input checked="" type="checkbox"/> | P - LAND TRANSPORTATION AND WAREHOUSING | P1 - Railroad Transportation; Local and Highway Passenger Transportation; Motor Freight Transportation and Warehousing; United States Postal Service; Petroleum Bulk Stations and Terminals | 4212 |
| <input type="checkbox"/> | AA - FABRICATED METAL PRODUCTS | AA1 - Fabricated Metal Products, Except Machinery and Transportation Equipment, and Coating, Engraving, and Allied Services; Jewelry, Silverware, and Plated Ware | 3499 |

Latitude/Longitude: 35.872505°N, 106.313542°W

This discharge point is *Substantially Identical* to an existing discharge point.

➔ Substantially Identical to Discharge Point ID: 026

Receiving Water

GNIS Name:

Waterbody Name:

SANDIA CANYON (SIGMA CANYON TO NPDES OUTFALL 001)

Listed Water ID:

NM-9000.A_047

Is this receiving water saltwater or freshwater? Freshwater

Is this receiving water designated by the state or tribal authority under its antidegradation policy as a Tier 2 (or Tier 2.5) water (water quality exceeds levels necessary to support propagation of fish, shellfish, and wildlife and recreation in and on the water)?

No

Will you have stormwater discharges from paved surfaces that will be initially sealed or re-sealed with coal-tar sealcoat where industrial activities are located during coverage under this permit?

No

Benchmark Monitoring

Are you subject to benchmark monitoring requirements for a hardness-dependent metal? No

Impaired Waters Monitoring

NOTE: The information automatically populated in this section for determining if the receiving water is listed as impaired on the 303(d) list and in need of a TMDL, the cause(s) of the impairment if the receiving water is impaired on the CWA 303(d) list, if a TMDL has been completed for the receiving waterbody, and the TMDL ID and pollutants for which there is a TMDL may be outdated and inaccurate. It is recommended that you consult with your state's guidance for discharges into impaired waters to determine the correct pollutants and TMDLS and update the causes for the impairment and TMDL information accordingly.

Is the receiving water listed as impaired on the 303(d) list and in need of a TMDL? Yes

| Cause of Impairment Group | Pollutant |
|----------------------------------|----------------------------------|
| POLYCHLORINATED BIPHENYLS (PCBS) | Polychlorinated biphenyls [PCBs] |
| METALS (OTHER THAN MERCURY) | Aluminum, total recoverable |
| METALS (OTHER THAN MERCURY) | Copper, dissolved [as Cu] |

Has a TMDL been completed for this receiving waterbody? No

Discharge Point 035: TA-60 Roads and Grounds SIO to 032

Applicable Sectors

Select the Sectors/Subsector(s) that apply to this discharge point.

| | Sector | Subsector | SIC/Activity Code |
|-------------------------------------|---|---|-------------------|
| <input type="checkbox"/> | D - ASPHALT PAVING AND ROOFING MATERIALS AND LUBRICANTS | D1 - Asphalt Paving and Roofing Materials | 2951 |
| <input type="checkbox"/> | N - SCRAP RECYCLING FACILITIES | N2 - Source-separated Recycling Facility | 5093 |
| <input checked="" type="checkbox"/> | P - LAND TRANSPORTATION AND WAREHOUSING | P1 - Railroad Transportation; Local and Highway Passenger Transportation; Motor Freight Transportation and Warehousing; United States Postal Service; Petroleum Bulk Stations and Terminals | 4212 |
| <input type="checkbox"/> | AA - FABRICATED METAL PRODUCTS | AA1 - Fabricated Metal Products, Except Machinery and Transportation Equipment, and Coating, Engraving, and Allied Services; Jewelry, Silverware, and Plated Ware | 3499 |

Latitude/Longitude: 35.870474°N, 106.305432°W

This discharge point is *Substantially Identical* to an existing discharge point.

➔ Substantially Identical to Discharge Point ID: 032

Receiving Water

GNIS Name:

Waterbody Name:
SANDIA CANYON (SIGMA CANYON TO
NPDES OUTFALL 001)

Listed Water ID:
NM-9000.A_047

Is this receiving water saltwater or freshwater? Freshwater

Is this receiving water designated by the state or tribal authority under its antidegradation policy as a Tier 2 (or Tier 2.5) water (water quality exceeds levels necessary to support propagation of fish, shellfish, and wildlife and recreation in and on the water)?

No

Will you have stormwater discharges from paved surfaces that will be initially sealed or re-sealed with coal-tar sealcoat where industrial activities are located during coverage under this permit?

No

Benchmark Monitoring

Are you subject to benchmark monitoring requirements for a hardness-dependent metal? No

Impaired Waters Monitoring

NOTE: The information automatically populated in this section for determining if the receiving water is listed as impaired on the 303(d) list and in need of a TMDL, the cause(s) of the impairment if the receiving water is impaired on the CWA 303(d) list, if a TMDL has been completed for the receiving waterbody, and the TMDL ID and pollutants for which there is a TMDL may be outdated and inaccurate. It is recommended that you consult with your state's guidance for discharges into impaired waters to determine the correct pollutants and TMDLS and update the causes for the impairment and TMDL information accordingly.

Is the receiving water listed as impaired on the 303(d) list and in need of a TMDL? Yes

| Cause of Impairment Group | Pollutant |
|----------------------------------|-----------------------------------|
| POLYCHLORINATED BIPHENYLS (PCBS) | Poly chlorinated biphenyls [PCBs] |
| METALS (OTHER THAN MERCURY) | Aluminum, total recoverable |
| METALS (OTHER THAN MERCURY) | Copper, dissolved [as Cu] |

Has a TMDL been completed for this receiving waterbody? No

Discharge Point 043: TA-60 Asphalt Batch Plant

Applicable Sectors

Select the Sectors/Subsector(s) that apply to this discharge point.

| | Sector | Subsector | SIC/Activity Code |
|-------------------------------------|---|---|-------------------|
| <input checked="" type="checkbox"/> | D - ASPHALT PAVING AND ROOFING MATERIALS AND LUBRICANTS | D1 - Asphalt Paving and Roofing Materials | 2951 |
| <input type="checkbox"/> | N - SCRAP RECYCLING FACILITIES | N2 - Source-separated Recycling Facility | 5093 |
| <input type="checkbox"/> | P - LAND TRANSPORTATION AND WAREHOUSING | P1 - Railroad Transportation; Local and Highway Passenger Transportation; Motor Freight Transportation and Warehousing; United States Postal Service; Petroleum Bulk Stations and Terminals | 4212 |
| <input type="checkbox"/> | AA - FABRICATED METAL PRODUCTS | AA1 - Fabricated Metal Products, Except Machinery and Transportation Equipment, and Coating, Engraving, and Allied Services; Jewelry, Silverware, and Plated Ware | 3499 |

31.660000 Longitude 106.90165°W

This discharge point is *Substantially Identical* to an existing discharge point.

Receiving Water

GNIS Name:

Waterbody Name:

Listed Water ID:

MORTANDAD CANYON (WITHIN LANL)

NM-9000.A_042

Is this receiving water saltwater or freshwater? Freshwater

Is this receiving water designated by the state or tribal authority under its antidegradation policy as a Tier 2 (or Tier 2.5) water (water quality exceeds levels necessary to support propagation of fish, shellfish, and wildlife and recreation in and on the water)?

No

Will you have stormwater discharges from paved surfaces that will be initially sealed or re-sealed with coal-tar sealcoat where industrial activities are located during coverage under this permit?

No

Benchmark Monitoring

Are you subject to benchmark monitoring requirements for a hardness-dependent metal? No

Impaired Waters Monitoring

NOTE: The information automatically populated in this section for determining if the receiving water is listed as impaired on the 303(d) list and in need of a TMDL, the cause(s) of the impairment if the receiving water is impaired on the CWA 303(d) list, if a TMDL has been completed for the receiving waterbody, and the TMDL ID and pollutants for which there is a TMDL may be outdated and inaccurate. It is recommended that you consult with your state's guidance for discharges into impaired waters to determine the correct pollutants and TMDLS and update the causes for the impairment and TMDL information accordingly.

Is the receiving water listed as impaired on the 303(d) list and in need of a TMDL? Yes

| Cause of Impairment Group | Pollutant |
|----------------------------------|----------------------------------|
| POLYCHLORINATED BIPHENYLS (PCBS) | Polychlorinated biphenyls [PCBs] |
| MERCURY | Mercury, total [as Hg] |
| METALS (OTHER THAN MERCURY) | Copper, dissolved [as Cu] |
| RADIATION | Alpha, gross adjusted |

Has a TMDL been completed for this receiving waterbody? No

Discharge Point 031: TA-60 Roads and Grounds

Applicable Sectors

Select the Sectors/Subsector(s) that apply to this discharge point.

| Sector | Subsector | SIC/Activity Code |
|--------|-----------|-------------------|
| | | |

| | | | |
|-------------------------------------|--|--|------|
| <input type="checkbox"/> | D - ASPHALT PAVING AND ROOFING MATERIALS AND LUBRICANTS | D1 - Asphalt Paving and Roofing Materials | 2951 |
| <input type="checkbox"/> | N - SCRAP RECYCLING FACILITIES | N2 - Source-separated Recycling Facility | 5093 |
| <input checked="" type="checkbox"/> | P - LAND TRANSPORTATION AND WAREHOUSING | P1 - Railroad Transportation; Local and Highway Passenger Transportation; Motor Freight Transportation and Warehousing; United States Postal Service; Petroleum Bulk Stations and Terminals | 4212 |
| <input type="checkbox"/> | AA - FABRICATED METAL PRODUCTS | AA1 - Fabricated Metal Products, Except Machinery and Transportation Equipment, and Coating, Engraving, and Allied Services; Jewelry, Silverware, and Plated Ware | 3499 |

Latitude/Longitude: 35.869227°N, 106.305685°W

This discharge point is *Substantially Identical* to an existing discharge point.

Receiving Water

GNIS Name:

Waterbody Name:

MORTANDAD CANYON (WITHIN LANL)

Listed Water ID:

NM-9000.A_042

Is this receiving water saltwater or freshwater? Freshwater

Is this receiving water designated by the state or tribal authority under its antidegradation policy as a Tier 2 (or Tier 2.5) water (water quality exceeds levels necessary to support propagation of fish, shellfish, and wildlife and recreation in and on the water)?

No

Will you have stormwater discharges from paved surfaces that will be initially sealed or re-sealed with coal-tar sealcoat where industrial activities are located during coverage under this permit?

No

Benchmark Monitoring

Are you subject to benchmark monitoring requirements for a hardness-dependent metal? No

Impaired Waters Monitoring

NOTE: The information automatically populated in this section for determining if the receiving water is listed as impaired on the 303(d) list and in need of a TMDL, the cause(s) of the impairment if the receiving water is impaired on the CWA 303(d) list, if a TMDL has been completed for the receiving waterbody, and the TMDL ID and pollutants for which there is a TMDL may be outdated and inaccurate. It is recommended that you consult with your state's guidance for discharges into impaired waters to determine the correct pollutants and TMDLS and update the causes for the impairment and TMDL information accordingly.

Is the receiving water listed as impaired on the 303(d) list and in need of a TMDL? Yes

| Cause of Impairment Group | Pollutant |
|----------------------------------|----------------------------------|
| POLYCHLORINATED BIPHENYLS (PCBS) | Polychlorinated biphenyls [PCBs] |
| MERCURY | Mercury, total [as Hg] |
| METALS (OTHER THAN MERCURY) | Copper, dissolved [as Cu] |
| RADIATION | Alpha, gross adjusted |

Has a TMDL been completed for this receiving waterbody? No

Discharge Point 033: TA-60 Roads and Grounds SIO to 032

Applicable Sectors

Select the Sectors/Subsector(s) that apply to this discharge point.

| | Sector | Subsector | SIC/Activity Code |
|-------------------------------------|---|---|-------------------|
| <input type="checkbox"/> | D - ASPHALT PAVING AND ROOFING MATERIALS AND LUBRICANTS | D1 - Asphalt Paving and Roofing Materials | 2951 |
| <input type="checkbox"/> | N - SCRAP RECYCLING FACILITIES | N2 - Source-separated Recycling Facility | 5093 |
| <input checked="" type="checkbox"/> | P - LAND TRANSPORTATION AND WAREHOUSING | P1 - Railroad Transportation; Local and Highway Passenger Transportation; Motor Freight Transportation and Warehousing; United States Postal Service; Petroleum Bulk Stations and Terminals | 4212 |
| <input type="checkbox"/> | AA - FABRICATED METAL PRODUCTS | AA1 - Fabricated Metal Products, Except Machinery and Transportation Equipment, and Coating, Engraving, and Allied Services; Jewelry, Silverware, and Plated Ware | 3499 |

Latitude/Longitude: 35.870712°N, 106.306443°W

This discharge point is *Substantially Identical* to an existing discharge point.

➔ Substantially Identical to Discharge Point ID: 032

Receiving Water

GNIS Name:

Waterbody Name:

SANDIA CANYON (SIGMA CANYON TO NPDES OUTFALL 001)

Listed Water ID:

NM-9000.A_047

Is this receiving water saltwater or freshwater? Freshwater

Is this receiving water designated by the state or tribal authority under its antidegradation policy as a Tier 2 (or Tier 2.5) water (water quality exceeds levels necessary to support propagation of fish, shellfish, and wildlife and recreation in and on the water)?

No

Will you have stormwater discharges from paved surfaces that will be initially sealed or re-sealed with coal-tar sealcoat where industrial activities are located during coverage under this permit?

No

Benchmark Monitoring

Are you subject to benchmark monitoring requirements for a hardness-dependent metal? No

Impaired Waters Monitoring

NOTE: The information automatically populated in this section for determining if the receiving water is listed as impaired on the 303(d) list and in need of a TMDL, the cause(s) of the impairment if the receiving water is impaired on the CWA 303(d) list, if a TMDL has been completed for the receiving waterbody, and the TMDL ID and pollutants for which there is a TMDL may be outdated and inaccurate. It is recommended that you consult with your state's guidance for discharges into impaired waters to determine the correct pollutants and TMDLS and update the causes for the impairment and TMDL information accordingly.

Is the receiving water listed as impaired on the 303(d) list and in need of a TMDL? Yes

| Cause of Impairment Group | Pollutant |
|----------------------------------|-----------------------------------|
| POLYCHLORINATED BIPHENYLS (PCBS) | Poly chlorinated biphenyls [PCBs] |
| METALS (OTHER THAN MERCURY) | Aluminum, total recoverable |
| METALS (OTHER THAN MERCURY) | Copper, dissolved [as Cu] |

Has a TMDL been completed for this receiving waterbody? No

Discharge Point 027: TA-60-2 Warehouse SIO to 026

Applicable Sectors

Select the Sectors/Subsector(s) that apply to this discharge point.

| | Sector | Subsector | SIC/Activity Code |
|-------------------------------------|---|---|-------------------|
| <input type="checkbox"/> | D - ASPHALT PAVING AND ROOFING MATERIALS AND LUBRICANTS | D1 - Asphalt Paving and Roofing Materials | 2951 |
| <input type="checkbox"/> | N - SCRAP RECYCLING FACILITIES | N2 - Source-separated Recycling Facility | 5093 |
| <input checked="" type="checkbox"/> | P - LAND TRANSPORTATION AND WAREHOUSING | P1 - Railroad Transportation; Local and Highway Passenger Transportation; Motor Freight Transportation and Warehousing; United States Postal Service; Petroleum Bulk Stations and Terminals | 4212 |
| <input type="checkbox"/> | AA - FABRICATED METAL PRODUCTS | AA1 - Fabricated Metal Products, Except Machinery and Transportation Equipment, and Coating, Engraving, and Allied Services; Jewelry, Silverware, and Plated Ware | 3499 |

Latitude/Longitude: 35.872401°N, 106.313391°W

This discharge point is *Substantially Identical* to an existing discharge point.

➔ Substantially Identical to Discharge Point ID: 026

Receiving Water

GNIS Name:

Waterbody Name:

SANDIA CANYON (SIGMA CANYON TO NPDES OUTFALL 001)

Listed Water ID:

NM-9000.A_047

Is this receiving water saltwater or freshwater? Freshwater

Is this receiving water designated by the state or tribal authority under its antidegradation policy as a Tier 2 (or Tier 2.5) water (water quality exceeds levels necessary to support propagation of fish, shellfish, and wildlife and recreation in and on the water)?

No

Will you have stormwater discharges from paved surfaces that will be initially sealed or re-sealed with coal-tar sealcoat where industrial activities are located during coverage under this permit?

No

Benchmark Monitoring

Are you subject to benchmark monitoring requirements for a hardness-dependent metal? No

Impaired Waters Monitoring

NOTE: The information automatically populated in this section for determining if the receiving water is listed as impaired on the 303(d) list and in need of a TMDL, the cause(s) of the impairment if the receiving water is impaired on the CWA 303(d) list, if a TMDL has been completed for the receiving waterbody, and the TMDL ID and pollutants for which there is a TMDL may be outdated and inaccurate. It is recommended that you consult with your state's guidance for discharges into impaired waters to determine the correct pollutants and TMDLS and update the causes for the impairment and TMDL information accordingly.

Is the receiving water listed as impaired on the 303(d) list and in need of a TMDL? Yes

| Cause of Impairment Group | Pollutant |
|----------------------------------|-----------------------------------|
| POLYCHLORINATED BIPHENYLS (PCBS) | Poly chlorinated biphenyls [PCBs] |
| METALS (OTHER THAN MERCURY) | Aluminum, total recoverable |
| METALS (OTHER THAN MERCURY) | Copper, dissolved [as Cu] |

Has a TMDL been completed for this receiving waterbody? No

Discharge Point 030: TA-60 Roads and Grounds SIO to 031

Applicable Sectors

Select the Sectors/Subsector(s) that apply to this discharge point.

| | Sector | Subsector | SIC/Activity Code |
|-------------------------------------|---|---|-------------------|
| <input type="checkbox"/> | D - ASPHALT PAVING AND ROOFING MATERIALS AND LUBRICANTS | D1 - Asphalt Paving and Roofing Materials | 2951 |
| <input type="checkbox"/> | N - SCRAP RECYCLING FACILITIES | N2 - Source-separated Recycling Facility | 5093 |
| <input checked="" type="checkbox"/> | P - LAND TRANSPORTATION AND WAREHOUSING | P1 - Railroad Transportation; Local and Highway Passenger Transportation; Motor Freight Transportation and Warehousing; United States Postal Service; Petroleum Bulk Stations and Terminals | 4212 |
| <input type="checkbox"/> | AA - FABRICATED METAL PRODUCTS | AA1 - Fabricated Metal Products, Except Machinery and Transportation Equipment, and Coating, Engraving, and Allied Services; Jewelry, Silverware, and Plated Ware | 3499 |

Latitude/Longitude: 35.869325°N, 106.306926°W

This discharge point is *Substantially Identical* to an existing discharge point.

➔ Substantially Identical to Discharge Point ID: 031

Receiving Water

GNIS Name:

Waterbody Name:
MORTANDAD CANYON (WITHIN LANL)

Listed Water ID:
NM-9000.A_042

Is this receiving water saltwater or freshwater? Freshwater

Is this receiving water designated by the state or tribal authority under its antidegradation policy as a Tier 2 (or Tier 2.5) water (water quality exceeds levels necessary to support propagation of fish, shellfish, and wildlife and recreation in and on the water)?

No

Will you have stormwater discharges from paved surfaces that will be initially sealed or re-sealed with coal-tar sealcoat where industrial activities are located during coverage under this permit?

No

Benchmark Monitoring

Are you subject to benchmark monitoring requirements for a hardness-dependent metal? No

Impaired Waters Monitoring

NOTE: The information automatically populated in this section for determining if the receiving water is listed as impaired on the 303(d) list and in need of a TMDL, the cause(s) of the impairment if the receiving water is impaired on the CWA 303(d) list, if a TMDL has been completed for the receiving waterbody, and the TMDL ID and pollutants for which there is a TMDL may be outdated and inaccurate. It is recommended that you consult with your state's guidance for discharges into impaired waters to determine the correct pollutants and TMDLS and update the causes for the impairment and TMDL information accordingly.

Is the receiving water listed as impaired on the 303(d) list and in need of a TMDL? Yes

| Cause of Impairment Group | Pollutant |
|----------------------------------|-----------------------------------|
| POLYCHLORINATED BIPHENYLS (PCBS) | Poly chlorinated biphenyls [PCBs] |
| MERCURY | Mercury, total [as Hg] |
| METALS (OTHER THAN MERCURY) | Copper, dissolved [as Cu] |
| RADIATION | Alpha, gross adjusted |

Has a TMDL been completed for this receiving waterbody? No

Discharge Point 029: TA-60 Metals Recycling Facility

Applicable Sectors

Select the Sectors/Subsector(s) that apply to this discharge point.

| | Sector | Subsector | SIC/Activity Code |
|-------------------------------------|---|---|-------------------|
| <input type="checkbox"/> | D - ASPHALT PAVING AND ROOFING MATERIALS AND LUBRICANTS | D1 - Asphalt Paving and Roofing Materials | 2951 |
| <input checked="" type="checkbox"/> | N - SCRAP RECYCLING FACILITIES | N2 - Source-separated Recycling Facility | 5093 |
| <input type="checkbox"/> | P - LAND TRANSPORTATION AND WAREHOUSING | P1 - Railroad Transportation; Local and Highway Passenger Transportation; Motor Freight Transportation and Warehousing; United States Postal Service; Petroleum Bulk Stations and Terminals | 4212 |

| | | | |
|--------------------------|---------------------------------------|--|------|
| <input type="checkbox"/> | AA - FABRICATED METAL PRODUCTS | AA1 - Fabricated Metal Products, Except Machinery and Transportation Equipment, and Coating, Engraving, and Allied Services; Jewelry, Silverware, and Plated Ware | 3499 |
|--------------------------|---------------------------------------|--|------|

Latitude/Longitude: 35.873969°N, 106.313281°W

This discharge point is *Substantially Identical* to an existing discharge point.

Receiving Water

GNIS Name:

Waterbody Name:

Listed Water ID:

SANDIA CANYON (SIGMA CANYON TO NPDES OUTFALL 001)

NM-9000.A_047

Is this receiving water saltwater or freshwater? Freshwater

Is this receiving water designated by the state or tribal authority under its antidegradation policy as a Tier 2 (or Tier 2.5) water (water quality exceeds levels necessary to support propagation of fish, shellfish, and wildlife and recreation in and on the water)?

No

Will you have stormwater discharges from paved surfaces that will be initially sealed or re-sealed with coal-tar sealcoat where industrial activities are located during coverage under this permit?

No

Benchmark Monitoring

Are you subject to benchmark monitoring requirements for a hardness-dependent metal? No

Impaired Waters Monitoring

NOTE: The information automatically populated in this section for determining if the receiving water is listed as impaired on the 303(d) list and in need of a TMDL, the cause(s) of the impairment if the receiving water is impaired on the CWA 303(d) list, if a TMDL has been completed for the receiving waterbody, and the TMDL ID and pollutants for which there is a TMDL may be outdated and inaccurate. It is recommended that you consult with your state's guidance for discharges into impaired waters to determine the correct pollutants and TMDLS and update the causes for the impairment and TMDL information accordingly.

Is the receiving water listed as impaired on the 303(d) list and in need of a TMDL? Yes

| Cause of Impairment Group | Pollutant |
|----------------------------------|----------------------------------|
| POLYCHLORINATED BIPHENYLS (PCBS) | Polychlorinated biphenyls [PCBs] |
| METALS (OTHER THAN MERCURY) | Aluminum, total recoverable |
| METALS (OTHER THAN MERCURY) | Copper, dissolved [as Cu] |

Has a TMDL been completed for this receiving waterbody? No

Discharge Point 075: TA-60-2 Warehouse

Applicable Sectors

Select the Sectors/Subsector(s) that apply to this discharge point.

| | Sector | Subsector | SIC/Activity Code |
|-------------------------------------|---|---|-------------------|
| <input type="checkbox"/> | D - ASPHALT PAVING AND ROOFING MATERIALS AND LUBRICANTS | D1 - Asphalt Paving and Roofing Materials | 2951 |
| <input type="checkbox"/> | N - SCRAP RECYCLING FACILITIES | N2 - Source-separated Recycling Facility | 5093 |
| <input checked="" type="checkbox"/> | P - LAND TRANSPORTATION AND WAREHOUSING | P1 - Railroad Transportation; Local and Highway Passenger Transportation; Motor Freight Transportation and Warehousing; United States Postal Service; Petroleum Bulk Stations and Terminals | 4212 |
| <input type="checkbox"/> | AA - FABRICATED METAL PRODUCTS | AA1 - Fabricated Metal Products, Except Machinery and Transportation Equipment, and Coating, Engraving, and Allied Services; Jewelry, Silverware, and Plated Ware | 3499 |

Latitude/Longitude: 35.871154°N, 106.31294°W

This discharge point is *Substantially Identical* to an existing discharge point.

Receiving Water

GNIS Name:

Waterbody Name:

SANDIA CANYON (SIGMA CANYON TO NPDES OUTFALL 001)

Listed Water ID:

NM-9000.A_047

Is this receiving water saltwater or freshwater? Freshwater

Is this receiving water designated by the state or tribal authority under its antidegradation policy as a Tier 2 (or Tier 2.5) water (water quality exceeds levels necessary to support propagation of fish, shellfish, and wildlife and recreation in and on the water)?

No

Will you have stormwater discharges from paved surfaces that will be initially sealed or re-sealed with coal-tar sealcoat where industrial activities are located during coverage under this permit?

No

Benchmark Monitoring

Are you subject to benchmark monitoring requirements for a hardness-dependent metal? No

Impaired Waters Monitoring

NOTE: The information automatically populated in this section for determining if the receiving water is listed as impaired on the 303(d) list and in need of a TMDL, the cause(s) of the impairment if the receiving water is impaired on the CWA 303(d) list, if a TMDL has been completed for the receiving waterbody, and the TMDL ID and pollutants for which there is a TMDL may be outdated and inaccurate. It is recommended that you consult with your state's guidance for discharges into impaired waters to determine the correct pollutants and TMDLS and update the causes for the impairment and TMDL information accordingly.

Is the receiving water listed as impaired on the 303(d) list and in need of a TMDL? Yes

| Cause of Impairment Group | Pollutant |
|----------------------------------|-----------------------------------|
| POLYCHLORINATED BIPHENYLS (PCBS) | Poly chlorinated biphenyls [PCBs] |
| METALS (OTHER THAN MERCURY) | Aluminum, total recoverable |
| METALS (OTHER THAN MERCURY) | Copper, dissolved [as Cu] |

Has a TMDL been completed for this receiving waterbody? No

Discharge Point 021: TA-60-1 Heavy Equipment Yard SIO to 022

Applicable Sectors

Select the Sectors/Subsector(s) that apply to this discharge point.

| | Sector | Subsector | SIC/Activity Code |
|-------------------------------------|---|---|-------------------|
| <input type="checkbox"/> | D - ASPHALT PAVING AND ROOFING MATERIALS AND LUBRICANTS | D1 - Asphalt Paving and Roofing Materials | 2951 |
| <input type="checkbox"/> | N - SCRAP RECYCLING FACILITIES | N2 - Source-separated Recycling Facility | 5093 |
| <input checked="" type="checkbox"/> | P - LAND TRANSPORTATION AND WAREHOUSING | P1 - Railroad Transportation; Local and Highway Passenger Transportation; Motor Freight Transportation and Warehousing; United States Postal Service; Petroleum Bulk Stations and Terminals | 4212 |
| <input checked="" type="checkbox"/> | AA - FABRICATED METAL PRODUCTS | AA1 - Fabricated Metal Products, Except Machinery and Transportation Equipment, and Coating, Engraving, and Allied Services; Jewelry, Silverware, and Plated Ware | 3499 |

Latitude/Longitude: 35.872514°N, 106.313562°W

This discharge point is *Substantially Identical* to an existing discharge point.

➔ Substantially Identical to Discharge Point ID: 022

Receiving Water

GNIS Name:

Waterbody Name:

SANDIA CANYON (SIGMA CANYON TO NPDES OUTFALL 001)

Listed Water ID:

NM-9000.A_047

Is this receiving water saltwater or freshwater? Freshwater

Is this receiving water designated by the state or tribal authority under its antidegradation policy as a Tier 2 (or Tier 2.5) water (water quality exceeds levels necessary to support propagation of fish, shellfish, and wildlife and recreation in and on the water)?

No

Will you have stormwater discharges from paved surfaces that will be initially sealed or re-sealed with coal-tar sealcoat where industrial activities are located during coverage under this permit?

No

Benchmark Monitoring

Are you subject to benchmark monitoring requirements for a hardness-dependent metal? Yes

➔ What is the hardness of your receiving water(s)? 61

(mg/L)

Impaired Waters Monitoring

NOTE: The information automatically populated in this section for determining if the receiving water is listed as impaired on the 303(d) list and in need of a TMDL, the cause(s) of the impairment if the receiving water is impaired on the CWA 303(d) list, if a TMDL has been completed for the receiving

waterbody, and the TMDL ID and pollutants for which there is a TMDL may be outdated and inaccurate. It is recommended that you consult with your state's guidance for discharges into impaired waters to determine the correct pollutants and TMDLS and update the causes for the impairment and TMDL information accordingly.

Is the receiving water listed as impaired on the 303(d) list and in need of a TMDL? Yes

| Cause of Impairment Group | Pollutant |
|----------------------------------|-----------------------------------|
| POLYCHLORINATED BIPHENYLS (PCBS) | Poly chlorinated biphenyls [PCBs] |
| METALS (OTHER THAN MERCURY) | Aluminum, total recoverable |
| METALS (OTHER THAN MERCURY) | Copper, dissolved [as Cu] |

Has a TMDL been completed for this receiving waterbody? No

Discharge Point 042: TA-60 Roads and Grounds

Applicable Sectors

Select the Sectors/Subsector(s) that apply to this discharge point.

| | Sector | Subsector | SIC/Activity Code |
|-------------------------------------|---|---|-------------------|
| <input type="checkbox"/> | D - ASPHALT PAVING AND ROOFING MATERIALS AND LUBRICANTS | D1 - Asphalt Paving and Roofing Materials | 2951 |
| <input type="checkbox"/> | N - SCRAP RECYCLING FACILITIES | N2 - Source-separated Recycling Facility | 5093 |
| <input checked="" type="checkbox"/> | P - LAND TRANSPORTATION AND WAREHOUSING | P1 - Railroad Transportation; Local and Highway Passenger Transportation; Motor Freight Transportation and Warehousing; United States Postal Service; Petroleum Bulk Stations and Terminals | 4212 |
| <input type="checkbox"/> | AA - FABRICATED METAL PRODUCTS | AA1 - Fabricated Metal Products, Except Machinery and Transportation Equipment, and Coating, Engraving, and Allied Services; Jewelry, Silverware, and Plated Ware | 3499 |

Latitude/Longitude: 35.867047°N, 106.289163°W

This discharge point is *Substantially Identical* to an existing discharge point.

Receiving Water

GNIS Name:

Waterbody Name:

SANDIA CANYON (SIGMA CANYON TO NPDES OUTFALL 001)

Listed Water ID:

NM-9000.A_047

Is this receiving water saltwater or freshwater? Freshwater

Is this receiving water designated by the state or tribal authority under its antidegradation policy as a Tier 2 (or Tier 2.5) water (water quality exceeds levels necessary to support propagation of fish, shellfish, and wildlife and recreation in and on the water)?

No

Will you have stormwater discharges from paved surfaces that will be initially sealed or re-sealed with coal-tar sealcoat where industrial activities are located during coverage under this permit?

No

Benchmark Monitoring

Are you subject to benchmark monitoring requirements for a hardness-dependent metal? No

Impaired Waters Monitoring

NOTE: The information automatically populated in this section for determining if the receiving water is listed as impaired on the 303(d) list and in need of a TMDL, the cause(s) of the impairment if the receiving water is impaired on the CWA 303(d) list, if a TMDL has been completed for the receiving waterbody, and the TMDL ID and pollutants for which there is a TMDL may be outdated and inaccurate. It is recommended that you consult with your state's guidance for discharges into impaired waters to determine the correct pollutants and TMDLS and update the causes for the impairment and TMDL information accordingly.

Is the receiving water listed as impaired on the 303(d) list and in need of a TMDL? Yes

| Cause of Impairment Group | Pollutant |
|----------------------------------|-----------------------------------|
| METALS (OTHER THAN MERCURY) | Aluminum, total recoverable |
| METALS (OTHER THAN MERCURY) | Copper, dissolved [as Cu] |
| POLYCHLORINATED BIPHENYLS (PCBS) | Poly chlorinated biphenyls [PCBs] |

Has a TMDL been completed for this receiving waterbody? No

Discharge Point 022: TA-60-1 Heavy Equipment Yard

Applicable Sectors

Select the Sectors/Subsector(s) that apply to this discharge point.

| | Sector | Subsector | SIC/Activity Code |
|-------------------------------------|---|---|-------------------|
| <input type="checkbox"/> | D - ASPHALT PAVING AND ROOFING MATERIALS AND LUBRICANTS | D1 - Asphalt Paving and Roofing Materials | 2951 |
| <input type="checkbox"/> | N - SCRAP RECYCLING FACILITIES | N2 - Source-separated Recycling Facility | 5093 |
| <input checked="" type="checkbox"/> | P - LAND TRANSPORTATION AND WAREHOUSING | P1 - Railroad Transportation; Local and Highway Passenger Transportation; Motor Freight Transportation and Warehousing; United States Postal Service; Petroleum Bulk Stations and Terminals | 4212 |
| <input checked="" type="checkbox"/> | AA - FABRICATED METAL PRODUCTS | AA1 - Fabricated Metal Products, Except Machinery and Transportation Equipment, and Coating, Engraving, and Allied Services; Jewelry, Silverware, and Plated Ware | 3499 |

Latitude/Longitude: 35.872661°N, 106.313691°W

This discharge point is *Substantially Identical* to an existing discharge point.

Receiving Water

GNIS Name:

Waterbody Name:

SANDIA CANYON (SIGMA CANYON TO NPDES OUTFALL 001)

Listed Water ID:

NM-9000.A_047

Is this receiving water saltwater or freshwater? Freshwater

Is this receiving water designated by the state or tribal authority under its antidegradation policy as a Tier 2 (or Tier 2.5) water (water quality exceeds levels necessary to support propagation of fish, shellfish, and wildlife and recreation in and on the water)?

No

Will you have stormwater discharges from paved surfaces that will be initially sealed or re-sealed with coal-tar sealcoat where industrial activities are located during coverage under this permit?

No

Benchmark Monitoring

Are you subject to benchmark monitoring requirements for a hardness-dependent metal? Yes

➔ What is the hardness of your receiving water(s)? 61

(mg/L)

Impaired Waters Monitoring

NOTE: The information automatically populated in this section for determining if the receiving water is listed as impaired on the 303(d) list and in need of a TMDL, the cause(s) of the impairment if the receiving water is impaired on the CWA 303(d) list, if a TMDL has been completed for the receiving waterbody, and the TMDL ID and pollutants for which there is a TMDL may be outdated and inaccurate. It is recommended that you consult with your state's guidance for discharges into impaired waters to determine the correct pollutants and TMDLS and update the causes for the impairment and TMDL information accordingly.

Is the receiving water listed as impaired on the 303(d) list and in need of a TMDL? Yes

| Cause of Impairment Group | Pollutant |
|----------------------------------|-----------------------------------|
| METALS (OTHER THAN MERCURY) | Aluminum, total recoverable |
| POLYCHLORINATED BIPHENYLS (PCBS) | Poly chlorinated biphenyls [PCBs] |
| METALS (OTHER THAN MERCURY) | Copper, dissolved [as Cu] |

Has a TMDL been completed for this receiving waterbody? No

Discharge Point 025: TA-60-1 Heavy Equipment Yard SIO to 022

Applicable Sectors

Select the Sectors/Subsector(s) that apply to this discharge point.

| | Sector | Subsector | SIC/Activity Code |
|-------------------------------------|---|---|-------------------|
| <input type="checkbox"/> | D - ASPHALT PAVING AND ROOFING MATERIALS AND LUBRICANTS | D1 - Asphalt Paving and Roofing Materials | 2951 |
| <input type="checkbox"/> | N - SCRAP RECYCLING FACILITIES | N2 - Source-separated Recycling Facility | 5093 |
| <input checked="" type="checkbox"/> | P - LAND TRANSPORTATION AND WAREHOUSING | P1 - Railroad Transportation; Local and Highway Passenger Transportation; Motor Freight Transportation and Warehousing; United States Postal Service; Petroleum Bulk Stations and Terminals | 4212 |

| | | | |
|-------------------------------------|---------------------------------------|--|------|
| <input checked="" type="checkbox"/> | AA - FABRICATED METAL PRODUCTS | AA1 - Fabricated Metal Products, Except Machinery and Transportation Equipment, and Coating, Engraving, and Allied Services; Jewelry, Silverware, and Plated Ware | 3499 |
|-------------------------------------|---------------------------------------|--|------|

Latitude/Longitude: 35.872928°N, 106.3154°W

This discharge point is *Substantially Identical* to an existing discharge point.

➔ Substantially Identical to Discharge Point ID: 022

Receiving Water

GNIS Name:

Waterbody Name:

SANDIA CANYON (SIGMA CANYON TO NPDES OUTFALL 001)

Listed Water ID:

NM-9000.A_047

Is this receiving water saltwater or freshwater? Freshwater

Is this receiving water designated by the state or tribal authority under its antidegradation policy as a Tier 2 (or Tier 2.5) water (water quality exceeds levels necessary to support propagation of fish, shellfish, and wildlife and recreation in and on the water)?

No

Will you have stormwater discharges from paved surfaces that will be initially sealed or re-sealed with coal-tar sealcoat where industrial activities are located during coverage under this permit?

No

Benchmark Monitoring

Are you subject to benchmark monitoring requirements for a hardness-dependent metal? Yes

➔ What is the hardness of your receiving water(s)? 61

(mg/L)

Impaired Waters Monitoring

NOTE: The information automatically populated in this section for determining if the receiving water is listed as impaired on the 303(d) list and in need of a TMDL, the cause(s) of the impairment if the receiving water is impaired on the CWA 303(d) list, if a TMDL has been completed for the receiving waterbody, and the TMDL ID and pollutants for which there is a TMDL may be outdated and inaccurate. It is recommended that you consult with your state's guidance for discharges into impaired waters to determine the correct pollutants and TMDLS and update the causes for the impairment and TMDL information accordingly.

Is the receiving water listed as impaired on the 303(d) list and in need of a TMDL? Yes

| Cause of Impairment Group | Pollutant |
|----------------------------------|-----------------------------------|
| METALS (OTHER THAN MERCURY) | Aluminum, total recoverable |
| POLYCHLORINATED BIPHENYLS (PCBS) | Poly chlorinated biphenyls [PCBs] |
| METALS (OTHER THAN MERCURY) | Copper, dissolved [as Cu] |

Has a TMDL been completed for this receiving waterbody? No

Discharge Point 026: TA-60-2 Warehouse

Applicable Sectors

Select the Sectors/Subsector(s) that apply to this discharge point.

| | Sector | Subsector | SIC/Activity Code |
|-------------------------------------|---|---|-------------------|
| <input type="checkbox"/> | D - ASPHALT PAVING AND ROOFING MATERIALS AND LUBRICANTS | D1 - Asphalt Paving and Roofing Materials | 2951 |
| <input type="checkbox"/> | N - SCRAP RECYCLING FACILITIES | N2 - Source-separated Recycling Facility | 5093 |
| <input checked="" type="checkbox"/> | P - LAND TRANSPORTATION AND WAREHOUSING | P1 - Railroad Transportation; Local and Highway Passenger Transportation; Motor Freight Transportation and Warehousing; United States Postal Service; Petroleum Bulk Stations and Terminals | 4212 |
| <input type="checkbox"/> | AA - FABRICATED METAL PRODUCTS | AA1 - Fabricated Metal Products, Except Machinery and Transportation Equipment, and Coating, Engraving, and Allied Services; Jewelry, Silverware, and Plated Ware | 3499 |

Latitude/Longitude: 35.872114°N, 106.313105°W

This discharge point is *Substantially Identical* to an existing discharge point.

Receiving Water

GNIS Name:

Waterbody Name:

SANDIA CANYON (SIGMA CANYON TO NPDES OUTFALL 001)

Listed Water ID:

NM-9000.A_047

Is this receiving water saltwater or freshwater? Freshwater

Is this receiving water designated by the state or tribal authority under its antidegradation policy as a Tier 2 (or Tier 2.5) water (water quality exceeds levels necessary to support propagation of fish, shellfish, and wildlife and recreation in and on the water)?

No

Will you have stormwater discharges from paved surfaces that will be initially sealed or re-sealed with coal-tar sealcoat where industrial activities are located during coverage under this permit?

No

Benchmark Monitoring

Are you subject to benchmark monitoring requirements for a hardness-dependent metal? No

Impaired Waters Monitoring

NOTE: The information automatically populated in this section for determining if the receiving water is listed as impaired on the 303(d) list and in need of a TMDL, the cause(s) of the impairment if the receiving water is impaired on the CWA 303(d) list, if a TMDL has been completed for the receiving waterbody, and the TMDL ID and pollutants for which there is a TMDL may be outdated and inaccurate. It is recommended that you consult with your state's guidance for discharges into impaired waters to determine the correct pollutants and TMDLS and update the causes for the impairment and TMDL information accordingly.

Is the receiving water listed as impaired on the 303(d) list and in need of a TMDL? Yes

| Cause of Impairment Group | Pollutant |
|---------------------------|-----------|
| | |

| | |
|----------------------------------|-----------------------------------|
| POLYCHLORINATED BIPHENYLS (PCBS) | Poly chlorinated biphenyls [PCBs] |
| METALS (OTHER THAN MERCURY) | Aluminum, total recoverable |
| METALS (OTHER THAN MERCURY) | Copper, dissolved [as Cu] |

Has a TMDL been completed for this receiving waterbody? No

Discharge Point 037: TA-60 Roads and Grounds

Applicable Sectors

Select the Sectors/Subsector(s) that apply to this discharge point.

| | Sector | Subsector | SIC/Activity Code |
|-------------------------------------|---|---|-------------------|
| <input type="checkbox"/> | D - ASPHALT PAVING AND ROOFING MATERIALS AND LUBRICANTS | D1 - Asphalt Paving and Roofing Materials | 2951 |
| <input type="checkbox"/> | N - SCRAP RECYCLING FACILITIES | N2 - Source-separated Recycling Facility | 5093 |
| <input checked="" type="checkbox"/> | P - LAND TRANSPORTATION AND WAREHOUSING | P1 - Railroad Transportation; Local and Highway Passenger Transportation; Motor Freight Transportation and Warehousing; United States Postal Service; Petroleum Bulk Stations and Terminals | 4212 |
| <input type="checkbox"/> | AA - FABRICATED METAL PRODUCTS | AA1 - Fabricated Metal Products, Except Machinery and Transportation Equipment, and Coating, Engraving, and Allied Services; Jewelry, Silverware, and Plated Ware | 3499 |

Latitude/Longitude: 35.867859°N, 106.292992°W

This discharge point is *Substantially Identical* to an existing discharge point.

Receiving Water

GNIS Name:

Waterbody Name:

SANDIA CANYON (SIGMA CANYON TO NPDES OUTFALL 001)

Listed Water ID:

NM-9000.A_047

Is this receiving water saltwater or freshwater? Freshwater

Is this receiving water designated by the state or tribal authority under its antidegradation policy as a Tier 2 (or Tier 2.5) water (water quality exceeds levels necessary to support propagation of fish, shellfish, and wildlife and recreation in and on the water)?

No

Will you have stormwater discharges from paved surfaces that will be initially sealed or re-sealed with coal-tar sealcoat where industrial activities are located during coverage under this permit?

No

Benchmark Monitoring

Are you subject to benchmark monitoring requirements for a hardness-dependent metal? No

Impaired Waters Monitoring

NOTE: The information automatically populated in this section for determining if the receiving water is listed as impaired on the 303(d) list and in need of a TMDL, the cause(s) of the impairment if the receiving water is impaired on the CWA 303(d) list, if a TMDL has been completed for the receiving waterbody, and the TMDL ID and pollutants for which there is a TMDL may be outdated and inaccurate. It is recommended that you consult with your state's guidance for discharges into impaired waters to determine the correct pollutants and TMDLS and update the causes for the impairment and TMDL information accordingly.

Is the receiving water listed as impaired on the 303(d) list and in need of a TMDL? Yes

| Cause of Impairment Group | Pollutant |
|----------------------------------|-----------------------------------|
| METALS (OTHER THAN MERCURY) | Aluminum, total recoverable |
| POLYCHLORINATED BIPHENYLS (PCBS) | Poly chlorinated biphenyls [PCBs] |
| METALS (OTHER THAN MERCURY) | Copper, dissolved [as Cu] |

Has a TMDL been completed for this receiving waterbody? No

Discharge Point 076: TA-3-38 Metals Fab Shop

Applicable Sectors

Select the Sectors/Subsector(s) that apply to this discharge point.

| | Sector | Subsector | SIC/Activity Code |
|-------------------------------------|---|---|-------------------|
| <input type="checkbox"/> | D - ASPHALT PAVING AND ROOFING MATERIALS AND LUBRICANTS | D1 - Asphalt Paving and Roofing Materials | 2951 |
| <input type="checkbox"/> | N - SCRAP RECYCLING FACILITIES | N2 - Source-separated Recycling Facility | 5093 |
| <input checked="" type="checkbox"/> | AA - FABRICATED METAL PRODUCTS | AA1 - Fabricated Metal Products, Except Machinery and Transportation Equipment, and Coating, Engraving, and Allied Services; Jewelry, Silverware, and Plated Ware | 3499 |
| <input type="checkbox"/> | P - LAND TRANSPORTATION AND WAREHOUSING | P1 - Railroad Transportation; Local and Highway Passenger Transportation; Motor Freight Transportation and Warehousing; United States Postal Service; Petroleum Bulk Stations and Terminals | 4212 |

Latitude/Longitude: 35.875851°N, 106.327924°W

This discharge point is *Substantially Identical* to an existing discharge point.

Receiving Water

GNIS Name:

Waterbody Name:

SANDIA CANYON (SIGMA CANYON TO NPDES OUTFALL 001)

Listed Water ID:

NM-9000.A_047

Is this receiving water saltwater or freshwater? Freshwater

Is this receiving water designated by the state or tribal authority under its antidegradation policy as a Tier 2 (or Tier 2.5) water (water quality exceeds levels necessary to support propagation of fish, shellfish, and wildlife and recreation in and on the water)?

No

Will you have stormwater discharges from paved surfaces that will be initially sealed or re-sealed with coal-tar sealcoat where industrial activities are located during coverage under this permit?

No

Benchmark Monitoring

Are you subject to benchmark monitoring requirements for a hardness-dependent metal? Yes

➔ What is the hardness of your receiving water(s)? 61

(mg/L)

Impaired Waters Monitoring

NOTE: The information automatically populated in this section for determining if the receiving water is listed as impaired on the 303(d) list and in need of a TMDL, the cause(s) of the impairment if the receiving water is impaired on the CWA 303(d) list, if a TMDL has been completed for the receiving waterbody, and the TMDL ID and pollutants for which there is a TMDL may be outdated and inaccurate. It is recommended that you consult with your state's guidance for discharges into impaired waters to determine the correct pollutants and TMDLS and update the causes for the impairment and TMDL information accordingly.

Is the receiving water listed as impaired on the 303(d) list and in need of a TMDL? Yes

| Cause of Impairment Group | Pollutant |
|----------------------------------|----------------------------------|
| POLYCHLORINATED BIPHENYLS (PCBS) | Polychlorinated biphenyls [PCBs] |
| METALS (OTHER THAN MERCURY) | Aluminum, total recoverable |
| METALS (OTHER THAN MERCURY) | Copper, dissolved [as Cu] |

Has a TMDL been completed for this receiving waterbody? No

Discharge Point 077: TA-3-38 Metals Fab Shop

Applicable Sectors

Select the Sectors/Subsector(s) that apply to this discharge point.

| | Sector | Subsector | SIC/Activity Code |
|-------------------------------------|---|---|-------------------|
| <input type="checkbox"/> | D - ASPHALT PAVING AND ROOFING MATERIALS AND LUBRICANTS | D1 - Asphalt Paving and Roofing Materials | 2951 |
| <input type="checkbox"/> | N - SCRAP RECYCLING FACILITIES | N2 - Source-separated Recycling Facility | 5093 |
| <input checked="" type="checkbox"/> | AA - FABRICATED METAL PRODUCTS | AA1 - Fabricated Metal Products, Except Machinery and Transportation Equipment, and Coating, Engraving, and Allied Services; Jewelry, Silverware, and Plated Ware | 3499 |
| <input type="checkbox"/> | P - LAND TRANSPORTATION AND WAREHOUSING | P1 - Railroad Transportation; Local and Highway Passenger Transportation; Motor Freight Transportation and Warehousing; United States Postal Service; Petroleum Bulk Stations and Terminals | 4212 |

Latitude/Longitude: 35.869722°N, 106.300833°W

This discharge point is *Substantially Identical* to an existing discharge point.

Receiving Water

GNIS Name:

Waterbody Name:

SANDIA CANYON (SIGMA CANYON TO
NPDES OUTFALL 001)

Listed Water ID:

NM-9000.A_047

Is this receiving water saltwater or freshwater? Freshwater

Is this receiving water designated by the state or tribal authority under its antidegradation policy as a Tier 2 (or Tier 2.5) water (water quality exceeds levels necessary to support propagation of fish, shellfish, and wildlife and recreation in and on the water)?

No

Will you have stormwater discharges from paved surfaces that will be initially sealed or re-sealed with coal-tar sealcoat where industrial activities are located during coverage under this permit?

No

Benchmark Monitoring

Are you subject to benchmark monitoring requirements for a hardness-dependent metal? Yes

➔ What is the hardness of your receiving water(s)? 61

(mg/L)

Impaired Waters Monitoring

NOTE: The information automatically populated in this section for determining if the receiving water is listed as impaired on the 303(d) list and in need of a TMDL, the cause(s) of the impairment if the receiving water is impaired on the CWA 303(d) list, if a TMDL has been completed for the receiving waterbody, and the TMDL ID and pollutants for which there is a TMDL may be outdated and inaccurate. It is recommended that you consult with your state's guidance for discharges into impaired waters to determine the correct pollutants and TMDLS and update the causes for the impairment and TMDL information accordingly.

Is the receiving water listed as impaired on the 303(d) list and in need of a TMDL? Yes

| Cause of Impairment Group | Pollutant |
|----------------------------------|-----------------------------------|
| POLYCHLORINATED BIPHENYLS (PCBS) | Poly chlorinated biphenyls [PCBs] |
| METALS (OTHER THAN MERCURY) | Aluminum, total recoverable |
| METALS (OTHER THAN MERCURY) | Copper, dissolved [as Cu] |

Has a TMDL been completed for this receiving waterbody? No

Discharge Point 078: TA-16 Stockpile Yard

Applicable Sectors

Select the Sectors/Subsector(s) that apply to this discharge point.

| SIC/Activity |
|--------------|
| |

| | Sector | Subsector | Code |
|-------------------------------------|---|---|------|
| <input type="checkbox"/> | D - ASPHALT PAVING AND ROOFING MATERIALS AND LUBRICANTS | D1 - Asphalt Paving and Roofing Materials | 2951 |
| <input type="checkbox"/> | N - SCRAP RECYCLING FACILITIES | N2 - Source-separated Recycling Facility | 5093 |
| <input type="checkbox"/> | AA - FABRICATED METAL PRODUCTS | AA1 - Fabricated Metal Products, Except Machinery and Transportation Equipment, and Coating, Engraving, and Allied Services; Jewelry, Silverware, and Plated Ware | 3499 |
| <input checked="" type="checkbox"/> | P - LAND TRANSPORTATION AND WAREHOUSING | P1 - Railroad Transportation; Local and Highway Passenger Transportation; Motor Freight Transportation and Warehousing; United States Postal Service; Petroleum Bulk Stations and Terminals | 4212 |

Latitude/Longitude: 35.846944°N, 106.344722°W

This discharge point is *Substantially Identical* to an existing discharge point.

Receiving Water

GNIS Name:

Waterbody Name:

Listed Water ID:

CANYON DE VALLE (BELOW LANL GAGE E256)

NM-128.A_01

Is this receiving water saltwater or freshwater? Freshwater

Is this receiving water designated by the state or tribal authority under its antidegradation policy as a Tier 2 (or Tier 2.5) water (water quality exceeds levels necessary to support propagation of fish, shellfish, and wildlife and recreation in and on the water)?

No

Will you have stormwater discharges from paved surfaces that will be initially sealed or re-sealed with coal-tar sealcoat where industrial activities are located during coverage under this permit?

No

Benchmark Monitoring

Are you subject to benchmark monitoring requirements for a hardness-dependent metal? No

Impaired Waters Monitoring

NOTE: The information automatically populated in this section for determining if the receiving water is listed as impaired on the 303(d) list and in need of a TMDL, the cause(s) of the impairment if the receiving water is impaired on the CWA 303(d) list, if a TMDL has been completed for the receiving waterbody, and the TMDL ID and pollutants for which there is a TMDL may be outdated and inaccurate. It is recommended that you consult with your state's guidance for discharges into impaired waters to determine the correct pollutants and TMDLS and update the causes for the impairment and TMDL information accordingly.

Is the receiving water listed as impaired on the 303(d) list and in need of a TMDL? Yes

| Cause of Impairment Group | Pollutant |
|---------------------------|-----------------------|
| RADIATION | Alpha, gross adjusted |

Has a TMDL been completed for this receiving waterbody? No

Discharge Point 079: TA-9-214 Metals Fabrication Shop

Applicable Sectors

Select the Sectors/Subsector(s) that apply to this discharge point.

| | Sector | Subsector | SIC/Activity Code |
|-------------------------------------|---|---|-------------------|
| <input type="checkbox"/> | D - ASPHALT PAVING AND ROOFING MATERIALS AND LUBRICANTS | D1 - Asphalt Paving and Roofing Materials | 2951 |
| <input type="checkbox"/> | N - SCRAP RECYCLING FACILITIES | N2 - Source-separated Recycling Facility | 5093 |
| <input checked="" type="checkbox"/> | AA - FABRICATED METAL PRODUCTS | AA1 - Fabricated Metal Products, Except Machinery and Transportation Equipment, and Coating, Engraving, and Allied Services; Jewelry, Silverware, and Plated Ware | 3499 |
| <input type="checkbox"/> | P - LAND TRANSPORTATION AND WAREHOUSING | P1 - Railroad Transportation; Local and Highway Passenger Transportation; Motor Freight Transportation and Warehousing; United States Postal Service; Petroleum Bulk Stations and Terminals | 4212 |

Latitude/Longitude: 35.85678°N, 106.345631°W

This discharge point is *Substantially Identical* to an existing discharge point.

Receiving Water

GNIS Name:

Waterbody Name:

ARROYO DE LA DELFE (PAJARITO CANYON TO HEADWATERS)

Listed Water ID:

NM-128.A_16

Is this receiving water saltwater or freshwater? Freshwater

Is this receiving water designated by the state or tribal authority under its antidegradation policy as a Tier 2 (or Tier 2.5) water (water quality exceeds levels necessary to support propagation of fish, shellfish, and wildlife and recreation in and on the water)?

No

Will you have stormwater discharges from paved surfaces that will be initially sealed or re-sealed with coal-tar sealcoat where industrial activities are located during coverage under this permit?

No

Benchmark Monitoring

Are you subject to benchmark monitoring requirements for a hardness-dependent metal? Yes

➔ What is the hardness of your receiving water(s)? 28

(mg/L)

Impaired Waters Monitoring

NOTE: The information automatically populated in this section for determining if the receiving water is listed as impaired on the 303(d) list and in need of a TMDL, the cause(s) of the impairment if the receiving water is impaired on the CWA 303(d) list, if a TMDL has been completed for the receiving waterbody, and the TMDL ID and pollutants for which there is a TMDL may be outdated and inaccurate. It is recommended that you consult with your state's guidance for discharges into impaired waters to determine the correct pollutants and TMDLS and update the causes for the impairment and TMDL information accordingly.

Is the receiving water listed as impaired on the 303(d) list and in need of a TMDL? Yes

| Cause of Impairment Group | Pollutant |
|----------------------------------|-----------------------------------|
| POLYCHLORINATED BIPHENYLS (PCBS) | Poly chlorinated biphenyls [PCBs] |
| METALS (OTHER THAN MERCURY) | Aluminum, total recoverable |
| METALS (OTHER THAN MERCURY) | Copper, dissolved [as Cu] |
| RADIATION | Alpha, gross adjusted |

Has a TMDL been completed for this receiving waterbody? No

SWPPP Information

Has the SWPPP been prepared in advance of filing this NOI, as required? Yes

SWPPP Contact Information:

First Name Middle Initial Last Name: Holly Wheeler

Phone: 5056671312 Ext.:

Email: hbenson@lanl.gov

SWPPP Availability:

Your current SWPPP or certain information from your SWPPP must be made available through one of the following three options. Select one of the options and provide the required information.

Note: you are not required to post any confidential business information (CBI) or restricted information (as defined in Appendix A (https://www.epa.gov/sites/production/files/2021-01/documents/2021_msgp_-_appendix_a_-_definitions.pdf)) (such information may be redacted), but you must clearly identify those portions of the SWPPP that are being withheld from public access.

Option 1: Attach a current copy of your SWPPP to this NOI.

Option 2: Maintain a Current Copy of your SWPPP on an Internet page (Universal Resource Locator or URL).

Provide the web address URL (e.g. <http://www.example.com>): https://epr.lanl.gov

Option 3: Provide the following information from your SWPPP:

Endangered Species Protection Worksheet: Criterion D

The following questions will help you determine your eligibility under Part 1.1.4 of the permit with respect to protection of Endangered Species Act (ESA) species and critical habitat(s). Please refer to Appendix E (https://www.epa.gov/sites/production/files/2021-01/documents/2021_msgp_-_appendix_e_-_procedures_relatng_to_endangered_species_protection.pdf) of the 2021 MSGP for important information regarding your obligations under this permit concerning ESA-protected species and critical habitat(s).

Determine ESA Eligibility Criterion

Are your industrial activities already addressed in another operator's valid certification of eligibility for your "action area" under eligibility criteria A, C, D, or E of the 2021 MSGP?

No

Has consultation between you, a Federal Agency, and the USFWS and/or the NMFS under section 7 of the Endangered Species Act (ESA) concluded?

Consultations can be either formal or informal, and would have occurred only as a result of a separate federal action (e.g., during application for an individual wastewater discharge permit or the issuance of a wetlands dredge and fill permit), and the consultation must have addressed the effects of your industrial activity's discharges and discharge-related activities on ESA-listed species and/or critical habitat under the jurisdiction of USFWS and/or NMFS in your action area.

Yes

➔ **The result of the consultation was either:**

- i. A biological opinion and/or conference opinion that concludes that the action in question (taking into account the effects of your facility's discharges and discharge-related activities) is not likely to jeopardize the continued existence of ESA-listed species or result in the destruction or adverse modification of critical habitat. The biological opinion and/or conference opinion must have included the effects of your facility's discharges and discharge-related activities on all the listed species and critical habitat in your action area. To be eligible under (i), any reasonable and prudent measures specified in the incidental take statement must be implemented;
- ii. Written concurrence (e.g., letter of concurrence) from the applicable Service(s) with a finding that your facility's discharges and discharge-related activities are not likely to adversely affect ESA-listed species or critical habitat. The concurrence letter must have included the effects of your facility's discharges and discharge-related activities on all the ESA-listed species and/or critical habitat on your species list(s) acquired from the USFWS and/or the NMFS as part of this worksheet.

True

➔ **The consultation does not warrant reinitiation under 50 CFR §402.16; or, if reinitiation of consultation is required (e.g., due to a new species listing or critical habitat designation; new information), you have reinitiated the consultation and the result of the consultation is consistent with the statements above.**

True

You are eligible under **Criterion D**

Identify the federal action agency(ies) involved:

- U.S. Fish and Wildlife Services
- National Marine Fisheries Service

Provide the field office/regional office(s) providing that consultation and any tracking numbers of identifiers associated with that consultation (e.g., IPaC number, ECO number):

New Mexico Ecological Services Field Office, Cons. # 2-22-98-I-336, Cons. # 2-22-95-I-108, Cons. # 02ENNM00-2014-I-0014, Cons. # 02ENNM00-2015-I-0538

Provide the date the consultation was completed: 08/06/2015

You must attach copies of any letters or other communications with the USFWS or NMFS:

| Name | Uploaded Date | Size |
|--|---------------|-----------|
|  1999 HMP Concurrence Letter USFWS to DOE.pdf (attachment/712061) | 05/19/2021 | 276.65 KB |
|  2015-0538_USFWS Concurrence Letter_8-2015.pdf (attachment/712062) | 05/19/2021 | 94.97 KB |
|  Concurrence_8DEC2013_Biological Assessment of Jemez Mtn Salamander site Plan (2).pdf (attachment/712063) | 05/19/2021 | 239.87 KB |

Historic Preservation: Criterion B

The following questions will help you determine your eligibility under Part 1.1.5 of the permit with respect to preservation of historic properties. You may still use the paper instructions in Appendix F (https://www.epa.gov/sites/production/files/2021-01/documents/2021_msgp_-_appendix_f_-_procedures_relating_to_historic_properties_preservation.pdf) of the MSGP in advance or in conjunction with answering the questions in this section of the form. For more information about your State Historic Preservation Office (SHPO) or Tribal Historic Preservation Office (THPO), please visit the National Park Service (NPS) websites at:

- State Historic Preservation Office (SHPO) (<https://www.nps.gov/subjects/nationalregister/state-historic-preservation-offices.htm>)
- Tribal Historic Preservation Office (THPO) (https://www.nps.gov/history/tribes/Tribal_Historic_Preservation_Officers_Program.htm)

Are you an existing facility that is resubmitting for certification under the 2021 MSGP? Yes

➔ If you are an existing facility you should have already addressed National Historic Preservation Act (NHPA) issues. To gain coverage under the 2015 MSGP, you were required to certify that you were either not affecting historic properties or had obtained written agreement from the relevant SHPO or THPO regarding methods of mitigating potential impacts.

Will you be constructing or installing any new stormwater control measures? Yes

➔ Will the stormwater control measures you are constructing or installing disturb subsurface less than one (1) acre? Yes

Have prior earth disturbances determined that historic properties do not exist, or have prior disturbances precluded the existence of historic properties?

Yes

You are eligible under **Criterion B**.

Certification Information

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I have no personal knowledge that the information submitted is other than true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. Signing an electronic document on behalf of another person is subject to criminal, civil, administrative, or other lawful action.

Certified By: Jennifer pay ne

Certifier Title: Division Leader

Certifier Email: jpay ne@lanl.gov

Certified On: 05/26/2021 5:41 PM ET



United States Department of the Interior

FISH AND WILDLIFE SERVICE

New Mexico Ecological Services Field Office
2105 Osuna NE
Albuquerque, New Mexico 87113
Phone: (505) 346-2525 Fax: (505) 346-2542

February 12, 1999

Cons. #2-22-98-I-336
Cons. #2-22-95-I-108

David A. Gurule, Acting Area Manager
Department of Energy
Albuquerque Operations Office
Los Alamos Area Office
Los Alamos, New Mexico 87545

Dear Mr. Gurule:

This responds to your letter dated August 6, 1998, requesting our review and concurrence with the Threatened and Endangered Species Habitat Management Plan (HMP) for Los Alamos National Laboratory (LANL). The HMP was prepared by the LANL Ecology Group for the Department of Energy (DOE) as part of the Dual-Axis Radiographic Hydrodynamics Test Facility (DAHRT) Mitigation Action Plan. The U.S. Fish and Wildlife Service (Service) has worked closely with LANL in the development of the HMP. As a result of discussions and meetings following the August 6, 1998, submittal, additional information/clarification was provided via letters, updated Biological Evaluations/HMPs, and e-mail messages, dated September 8, October 20, November 25, and December 9, 1998, and January 4, January 22, and January 29, 1999. The purpose of the HMP is to provide for the protection of threatened and endangered species and their habitats on LANL. The HMP consists of three components that must be used together to assure proper management of the threatened and endangered species: an Overview Document, Site Plans, and Monitoring Plans. It was determined that if all the restrictions and protective measures outlined in the HMP are strictly followed, the implementation of this HMP may affect, but is not likely to adversely affect the Mexican spotted owl (owl), peregrine falcon (falcon), bald eagle (eagle), and southwestern willow flycatcher (flycatcher). The Biological Evaluation (BE) also considered potential impacts on the black-footed ferret, arctic peregrine falcon, and whooping crane. It was determined that there would be no effect on these species because of a lack of habitat.

Property at LANL varies from remote isolation to heavily developed and/or industrialized. The Service agrees, as stated in the Overview document, that a number of activities at LANL have the potential to adversely impact threatened and endangered species. Many of the industrial processes used at LANL have involved hazardous and radioactive materials. These materials as well as remediation of potential release sites may disturb

or reduce population viability of threatened and endangered species. In addition, other potential sources of disturbance or habitat alterations are possible as a result of the residential and commercial development in the LANL area. While the HMP identifies potential sources of adverse effects, this consultation does not necessarily cover all of those impacts. The Service does not anticipate that DOE will be able to plan all of its operations at LANL in accordance with this plan. The direct effects of most actions can be minimized through implementation of the HMP; however, a more thorough assessment is necessary to adequately evaluate the indirect and cumulative impacts of all actions that are funded, authorized, and permitted by DOE, as well as potential impacts from interrelated and interdependent actions. It was agreed (by Service, DOE, and LANL personnel) that consultation concerning ongoing LANL operations would be handled separately from the HMP, under the consultation on the Site-Wide EIS.

The Site Plans identify the particular areas of LANL where operations might impact known occupied or potential habitat for the flycatcher, eagle, falcon, and owl. Suitable habitat for these species, along with protective buffer areas surrounding their habitat, have been designated as Areas of Environmental Interest (AEIs). For the flycatcher, one AEI was established based on an observation of a migrant male flycatcher in 1997. The AEI is located in the Pajarito wetland area and includes the best available riparian habitat. For eagles, one AEI has been identified for wintering habitat that exists along the Rio Grande on the eastern edge of LANL. It is based on the locations of known and potential roost sites. For the falcon, four AEIs have been identified. They consist of the habitat previously identified under the 1985 interagency agreement. These areas are centered on deep canyons on the eastern side of LANL or on adjacent lands. LANL has agreed to implement the recommended management guidelines, which utilize four management zones (A through D) to protect nesting peregrine falcons from disturbance. For the owl, six AEIs have been identified, but only one of these sites is known to be occupied. These AEIs are based on and located in canyons that have been defined as suitable nest/roost habitat.

The AEI management section of each Site Plan provides guidelines for LANL operations to reduce or eliminate threats to each species. The primary threats on LANL property are (1) impacts on habitat quality from LANL operations and (2) disturbance of nesting or roosting birds. The site plans provide information on their location and guidelines for their management. The AEI Site Plans consist of a species description, descriptions of the AEIs for the species, descriptions of current impacts in the AEIs, management plans that describe allowable activities within core and buffer areas under the guidelines of the sites plan and protective measures. Activities discussed in the site plans include day to day activities, such as access into an AEI, as well as long-term projects, such as levels of habitat alteration in the buffer area of an AEI. Restrictions will be implemented on activities that could cause disturbance (people, vehicles and machinery, aircraft, light production, and noise) within occupied AEIs. The location of a potential disturbance activity within the AEI, the occupancy status of the AEI, and the type of activity all affect whether or not an activity is allowable. Habitat alterations are always restricted in core areas, but a limited amount of future development is allowed in currently undeveloped DOE-controlled buffer areas under the guidelines of this site plan as long

as it does not alter habitat in the undeveloped AEI (including light and noise guidelines). The purpose of buffer areas is to protect core areas from undue disturbance or habitat alteration or habitat degradation. Each AEI is specific to the situation or circumstances of the site it covers. According to the HMP, development beyond the cap established for each AEI, or greater than 2 hectares in size, including the developed-area border, requires independent review for ESA compliance.

Varying amounts of development and/or ongoing activities exist in the cores and buffers of each AEI. These developments may include residential, commercial, and light industrial areas, as well as roads and utility corridors. Existing/ongoing activities may include periodic scientific surveys, power line maintenance, recreational use, residential development, ER Program activities, and possible use of a firing site. Potential disturbance may be associated with automobile and truck traffic, construction activities, a live-fire range, explosives testing, and aircraft traffic at the County airport. Ongoing activities in developed areas constitute a baseline condition for the AEIs and are not restricted. New activities including further development within already existing developed areas are not restricted unless they impact undeveloped portions of an AEI core. If a proposed action within a developed area does not meet site plan guidelines, it must be individually reviewed for ESA compliance.

Some activities such as utility corridor maintenance, fuels management, and a limited amount of development are allowed in each AEI (as described in the HMP). The potential impacts of these activities are considered to be insignificant or discountable because they will occur in habitat that has been previously disturbed or is of poor quality due to its size or proximity to already developed areas. It is our understanding (based on the January 22, 1999, e-mail response from Terry Foxx) that the fuels management activities within the owl AEIs will only consist of ongoing and proposed fire protection activities around existing facilities (e.g. thinning around buildings) or those activities that are already covered under the Dome Fire Emergency BA. The other fire management activities mentioned in the HMP will go through the ESH-ID process and further consultation with the Service when a fire management plan is completed in the future.

In general, activities that detrimentally alter habitat in an AEI or would cause unacceptable disturbance to the species inhabiting the AEI are not allowed under the guidelines of a Site Plan. The Site Plans are designed to minimize impacts to threatened and endangered species and their habitat. The protective measures and restrictions outlined in the Site Plans were developed using the best available data, in cooperation with Service biologists.

The U.S. Fish and Wildlife Service concurs with DOE's determination that implementation of LANL's HMP may affect, but is not likely to adversely affect the Mexican spotted owl, American peregrine falcon, bald eagle, and southwestern willow flycatcher based on the protective measures described in the BA and HMP. If all the restrictions and protective measures outlined in the HMP are strictly followed, potential impacts on owls, falcons, eagles, and flycatchers are expected to be insignificant or

David A. Gurule, Acting Area Manager

4

discountable for the following reasons: 1) appropriate seasonal restrictions will be implemented to avoid disturbance to potentially breeding flycatchers, peregrines, and owls and wintering eagles; 2) no nest or roost habitat for any listed species will be altered; 3) the total amount of potential foraging habitat that could be impacted within each species home ranges is expected to be insignificant compared to the amount of available foraging habitat throughout the area; 4) monitoring plans have been developed as an integral part of the HMP; and 5) a mechanism for incorporating necessary technical and regulatory changes and updating the HMP has been included (page 32 of the Overview Document).

In future communications regarding this project, please refer to Consultation #2-22-98-I-336. If we can be of further assistance, please contact Carol Torrez of my staff at (505) 346-2525, ext. 115.

Sincerely,

A handwritten signature in black ink, appearing to read "Jennifer Fowler-Propst". The signature is fluid and cursive, with a large loop at the end.

Jennifer Fowler-Propst
Field Supervisor

cc:

Teralene Foxx, Project Manager, Ecology Group, Los Alamos National Laboratory,
P.O. Box 1663, Mail Stop M887, Los Alamos, New Mexico 87545
Elizabeth Withers, U.S. Department of Energy, Los Alamos Area Office, 35th Street, Los
Alamos, New Mexico
Field Supervisor, Ecological Services, U.S. Fish and Wildlife Service, Phoenix,
Arizona



United States Department of the Interior

FISH AND WILDLIFE SERVICE
New Mexico Ecological Services Field Office
2105 Osuna NE
Albuquerque, New Mexico 87113
Phone: (505) 346-2525 Fax: (505) 346-2542

December 9, 2013

Cons. #02ENNM00-2014-I-0014

Geoffrey L. Beausoleil, Acting Manager
National Nuclear Security Administration, Los Alamos Field Office
Department of Energy
Los Alamos, New Mexico 87544

Dear Mr. Beausoleil:

Thank you for your biological assessment entitled, "Biological Assessment of the Effects of Implementing the Jemez Mountains Salamander Site Plan on Federally Listed Threatened and Endangered Species at Los Alamos National Laboratory" (BA); the request for informal consultation and conferencing received on July 25, 2013 and supplemental information supplied in the "Jemez Mountains Salamander (*Plethodon neomexicanus*) Los Alamos National Laboratory (LANL) Site Plan" (Site Plan); and emails dated November 19 and December 3, 2013. The Department of Energy (DOE) requested concurrence with the determination of effects for the endangered Jemez Mountains salamander (*Plethodon neomexicanus*) (salamander) pursuant to Section 7(a)(2) of the Endangered Species Act of 1973 (ESA), as amended (16 U.S.C. § 1531 *et seq.*). Your proposed action consists of implementing the Site Plan, and includes of the incorporation of this Site Plan into LANL's Habitat Management Plan (HMP). The HMP was consulted upon in 1999 (Consultation #2-22-981-336) as the primary mechanism to ensure compliance with the ESA at LANL. The actions described in the Site Plan and analyzed in the BA, and supplemental emails are hereby incorporated by reference. You determined that implementing the Site Plan "may affect, is not likely to adversely affect" the salamander, and includes placing restrictions on certain types of work in areas identified as core habitat for the salamander on LANL property with the purpose of ensuring that effects to the salamander from those actions identified in the Site Plan are insignificant and discountable.

The Site Plan does not include any areas within designated salamander critical habitat, indicating that no critical habitat will be affected. The Site Plan has modeled and field validated the model to identify the areas on LANL property with the highest potential to be occupied by salamanders based on habitat features for the salamander. Each area identified by the modeling is termed "Area of Environmental Interest" (AEI) and consists of a "core area" and a "buffer area". The core area habitat is defined as suitable habitat where the salamander occurs or may occur at LANL. The core area habitat consists of sections of north-facing slope that contain the required

micro-habitat to support salamanders. The buffer area is 328 feet (100 meters) wide extending outward from the edge of the core area. Only the Los Alamos Canyon AEI is known to be occupied based on surveys. Surveys for the salamander are known to have a very low detection rate for occupied areas and DOE has assumed that all AEIs at LANL are occupied at all times by the salamander.

Within the Site Plan, DOE has assessed activities that could cause habitat alteration and includes any action that alters the soil structure, vegetative components necessary to the species, water quality, or hydrology in undeveloped areas of an AEI. If an activity were to take place outside of the AEI the activity will be assessed if it will have effects inside the AEI core. Within the core areas, only activities specified within the Site Plan and those that have no effect in the core areas (e.g. no habitat alterations or effects within the core areas) will be conducted without further consultation with the Service. Habitat alterations also include soil pits for soil samples deeper than 6 inches (15.2 centimeters) using either hand or mechanized augers. Within the Site Plan, DOE is proposing fuels management practices to reduce wildfire risk and maintenance of utility corridors within the AEIs. The likelihood that salamanders may be affected by the actions in the Site Plan is very low. To ensure that effects to the salamander are insignificant and discountable, the Site Plan incorporates the following conservation measures as restrictions to the identified work:

Fuels Management Practices to Reduce Wildfire Risk

- a. Within undeveloped core areas, thinning trees to a level of 80% canopy cover or higher may occur; tree thinning below 80% canopy cover is not part of the action under this consultation.
- b. Large logs on the ground will be left in place and not chipped.
- c. Large trees that are felled will be left as large logs on the ground
- d. When appropriate, smaller trees and understory shrubs that may be thinned will be dispersed and left on-site to aid in soil moisture retention.
- e. In buffer areas, thinning of trees may occur to the current LANL-approved prescription level; clear-cutting will not occur.
- f. Thinning activities will not occur during the rainy season when salamanders are surface active, between July 1 – October 31. Thinning activities may occur earlier in October if freezing temperatures are present.
- g. In the unlikely event that a salamander is observed surface active during thinning activities, all activities shall cease, and the Service will be notified.

Utility Corridors

- a. Cutting trees that threaten power lines may occur within 26 feet (8 meters) of either side of an existing utility line at LANL
- b. New utility lines and utility lines requiring clearance of a right-of-way greater than 52 feet (16 meters) total in core habitat is not part of the action under this consultation.

Habitat alterations other than the fuels management practices and utility corridor maintenance described above will not occur in undeveloped core areas under the guidelines of the Site Plan or this consultation. The Service concurs with DOE's determination regarding the salamander for the following reasons:

Within the Site Plan, DOE has placed the above detailed restrictions to ensure that any effects to the salamander and its habitat remain insignificant and discountable. Canopy cover will remain at 80% or greater in undeveloped core areas and fire management actions will occur outside of the salamander surface activity period. Maintaining utility line corridors in areas with existing infrastructure (the utility lines) by removing individual hazard trees is not expected to have any measurable effect on salamanders or their potential habitat. Consequently, we concur that potential effects to the salamander from the proposed action will be insignificant and discountable.

This concludes section 7 consultation regarding the proposed action. If monitoring or other information results in modification or the inability to complete all aspects of the proposed action, consultation should be reinitiated. Please contact the Service if: 1) future surveys detect listed, proposed or candidate species in habitats where they have not been previously observed; 2) the proposed action changes or new information reveals effects of the proposal to listed species that have not been considered in this analysis; or 3) a new species is listed or critical habitat designated that may be affected by the action.

Thank you for your concern for endangered and threatened species and New Mexico's wildlife habitats. In future correspondence regarding this project, please refer to consultation #02ENNM00-2014-I-0014. If you have any questions, please contact Michelle Christman of my staff at (505) 761-4715.

Sincerely,


Wally Murphy
Field Supervisor

cc:

Wildlife Biologist, Cuba Ranger District, Cuba, NM (Attn: Ramon Borrego)
Director, New Mexico Department of Game and Fish, Santa Fe, New Mexico



United States Department of the Interior



FISH AND WILDLIFE SERVICE

New Mexico Ecological Services Field Office
2105 Osuna Road NE
Albuquerque, New Mexico 87113
Telephone 505-346-2525 Fax 505-346-2542
www.fws.gov/southwest/es/newmexico/

August 6, 2015

Cons. # 02ENNM00-2015-I-0538

Kimberly Davis Lebak, Manager
Department of Energy
National Nuclear Security Administration
Los Alamos Field Office
Los Alamos, New Mexico 87544

Dear Ms. Lebak:

This responds to your July 9, 2015, cover letter and biological assessment (BA) requesting informal consultation for the addition of the Western distinct population segment of the yellow-billed cuckoo (*Coccyzus americanus occidentalis*) (cuckoo) and the New Mexico meadow jumping mouse (*Zapus hudsonius luteus*) (jumping mouse) to the Los Alamos National Laboratory Habitat Management Plan, Los Alamos, New Mexico. As documented in your BA, which is hereby incorporated by reference, we find that your proposed action will have insignificant and discountable effects to the cuckoo and the jumping mouse. Therefore, the Service concurs with your determination of “may affect, is not likely to adversely affect” for the cuckoo and the jumping mouse.

This concludes section 7 consultation regarding the proposed action. If monitoring or other information results in modification or the inability to complete all aspects of the proposed action, consultation should be reinitiated. Please contact the Service if: 1) future surveys detect listed, proposed or candidate species in habitats where they have not been previously observed; 2) the proposed action changes or new information reveals effects of the proposal to listed species that have not been considered in this analysis; or 3) a new species is listed or critical habitat designated that may be affected by the action.

Kimberly Davis Lebak, Manager

2

Thank you for your concern for endangered species and New Mexico's wildlife habitats. If you have any questions, please contact Eric Hein of my staff at the letterhead address or at (505) 761-4735.

Sincerely,

for Wally Murphy
Field Supervisor

cc:

Director, New Mexico Department of Game and Fish, Santa Fe, New Mexico

ATTACHMENT 2: SWPPP AMENDMENTS

| Date | Plan Section | Reason for Amendment | Amendment |
|-------------|---------------------|---|--|
| Jan 2019 | All | New MSGP Plan for new Laboratory Contract | New MSGP Plan for Triad, LLC (replacing LANS LLC) |
| Jan 2020 | All | Implementation of the new SWPPP template as required by EPC-CP-QP-2110, MSGP Stormwater Pollution Prevention Plan Preparation and Maintenance. Also included all inspections, assessments and reports required for the yearly update. | Inserted new template language to standardize all MSGP SWPPPs and inserted all required documentation for the yearly revision. |
| Jan 2021 | All | To include all inspections, assessments, and reports required for yearly update. | Insert all required documentation for the yearly revision. |
| May 2021 | All | The 2021 MSGP was published on January 15, 2021 and became effective on March 1, 2021. The new permit requires a SWPPP update. | Plan was reviewed to reflect new permit requirements. |
| Jan 2022 | All | To include all inspections, assessments, and reports required for yearly update. | Insert all required documentation for the yearly revision. |
| Jan 2023 | All | To include all inspections, assessments, and reports required for yearly update. | Insert all required documentation for the yearly revision. |

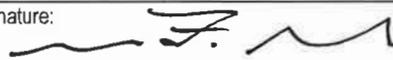
ATTACHMENT 3: CERTIFICATION OF NO UNAUTHORIZED STORMWATER DISCHARGES

Unauthorized Non-Storm Water Discharge Assessment and Certification

| | | | |
|---|--|---|--|
| Facility: | | TA-60 Roads and Grounds | |
| Outfalls (including SIOs*) or Other Onsite Drainage Points Observed During the Assessment | Identified Potential Sources of Unauthorized Non-Storm Water Discharge (if applicable) | Description of Assessment Criterion Used | Describe any Required Actions to Control or Eliminate the Discharge |
| Monitored Outfall 031 | None | Visual evaluation | None |
| Monitored Outfall 032 | None | Visual evaluation | None |
| Monitored Outfall 037 | None | Visual evaluation | None |
| Monitored Outfall 084 | None | Visual evaluation | None |
| Monitored Outfall 042 | None | Visual evaluation | None |
| SIDP 030 | None | Visual evaluation | None |
| SIDP 033 | None | Visual evaluation | None |
| SIDP 034 | None | Visual evaluation | None |
| Assessor: | | | |
| Print Name: Leonard F. Sandoval | Signature:  | Title: Deployed Environmental Professional | Date Assessed: 1/13/2023 |
| Authorized Signatory: I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information contained therein. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information contained is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. | | | |
| Print Name: DAVID E. TRUJILLO | Signature:  | Title: OPS. MGR. 01 | Date Certified: 1-13-2023 |

*SIO = Substantially Identical Outfall

Unauthorized Non-Storm Water Discharge Assessment and Certification

| | | | |
|---|--|---|--|
| Facility: TA-60 Roads and Grounds | | | |
| Outfalls (including SIOs*) or Other Onsite Drainage Points Observed During the Assessment | Identified Potential Sources of Unauthorized Non-Storm Water Discharge (if applicable) | Description of Assessment Criterion Used | Describe any Required Actions to Control or Eliminate the Discharge |
| SIDP 035 | None | Visual evaluation | None |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| Assessor: | | | |
| Print Name: Leonard F. Sandoval | Signature:  | Title: Deployed Environmental Professional | Date Assessed: 1/13/2023 |
| Authorized Signatory: I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information contained therein. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information contained is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. | | | |
| Print Name: DAVID E. TRONICO | Signature:  | Title: OPS. MGR. U1 | Date Certified: 1-13-2023 |

*SIO = Substantially Identical Outfall

Unauthorized Non-Storm Water Discharge Assessment and Certification

| | | | |
|---|--|---|--|
| Facility: | TA-60 Asphalt Batch Plant | | |
| Outfalls (including SIOs*) or Other Onsite Drainage Points Observed During the Assessment | Identified Potential Sources of Unauthorized Non-Storm Water Discharge (if applicable) | Description of Assessment Criterion Used | Describe any Required Actions to Control or Eliminate the Discharge |
| Monitored Outfall 043 | None | Visual evaluation | None |
| | | | |
| | | | |
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| | | | |
| | | | |
| | | | |
| | | | |
| Assessor: | | | |
| Print Name: Leonard F. Sandoval | Signature:  | Title: Deployed Environmental Professional | Date Assessed: 1/9/2023 |
| Authorized Signatory: I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information contained therein. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information contained is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. | | | |
| Print Name: DAVID E. TRUJILLO | Signature:  | Title: OPS-MGR. 2 | Date Certified: 1-11-2023 |

*SIO = Substantially Identical Outfall

ATTACHMENT 4: DULY AUTHORIZED SIGNATORY MEMORANDUM



Los Alamos National Laboratory
PO Box 1663, M969
Los Alamos, NM 87545
505-667-5466

**Environmental Protection & Compliance Division
Compliance Programs Group**

Symbol: EPC-DO: 22-139
LAUR: 22-24721
Locates: N/A
Date: 08/11/2022

Dr. Earthea Nance, Regional Administrator
U.S. Environmental Protection Agency, Region 6
1201 Elm Street, Suite 500
Dallas, Texas, 75270

**Subject: Notification of Triad National Security, LLC (Triad), Signatory Officials
and Authorized Representatives for National Pollutant Discharge
Elimination System (NPDES) Permits**

Dear Dr. Nance:

The purpose of this letter is to provide an update to the U.S. Environmental Protection Agency (EPA) Region 6 for the Triad National Security, LLC (Triad) delegation of authority for signature on documents associated with the various Los Alamos National Laboratory (LANL) National Pollutant Discharge Elimination System (NPDES) Permits, pursuant to Title 40 of the Code of Federal Regulations (40 CFR) §122.22(c). This letter supersedes and replaces the signatory authority letter dated December 11, 2018 (EPC-DO: 18-453).

The positions of Associate Laboratory Director of Environment, Safety, Health, Quality, Safeguards, and Security (ESHQSS), and Division Leader of the Environmental Protection and Compliance Division (EPC-DO) are identified as Triad's primary signatory officials under 40 CFR §122.22(a) for certifying and signing permit applications [including Notices of Intent (NOIs)] required under the LANL NPDES Industrial Point Source Outfall Permit (Permit No. NM0028355), the NPDES Construction General Permit (CGP) for Stormwater Discharges from Construction Activities, the NPDES Multi-Sector General Permit (MSGP) (Permit No. NMR050013) for Stormwater Discharges Associated with Industrial Activity and the NPDES Pesticide General Permit (Permit No. NMG870002) for Discharges from the Application of Pesticides.

The following positions are hereby designated as authorized representatives under 40 CFR §122.22(b) to sign reports, Stormwater Pollution Prevention Plans, Discharge Monitoring Reports, Pesticide Discharge Management Plans, and any other compliance documentation required by the permits:

NPDES Industrial Point Source Outfall Permit (No. NM0028355)

- Positions listed as primary signatory officials above.
- Group Leader or Team Leaders within the Compliance Programs Group.
- Responsible Facility Operations Director (FOD).

NPDES CGP:

- Positions listed as primary signatory officials above.
- Group Leader or Team Leaders within the Compliance Programs Group.
- Cognizant Project Manager, Construction Manager, or Subcontractor Technical Representative for the regulated construction activity.

NPDES MSGP (No. NMR050013)

- Positions listed as primary signatory officials above.
- Group Leader or Team Leaders within the Compliance Programs Group.
- Division Leader, Deputy Division Leader, or Group Leader of the Triad division responsible for the overall operation of the regulated facility or activity.
- Responsible FOD, Deputy FOD, or Operations Manager responsible for the overall operation of the regulated facility or activity.

NPDES Pesticide General Permit (No. NMG870002)

- Positions listed as primary signatory officials above.
- Group Leader or Team Leaders within the Compliance Programs Group.

If you have questions, please contact me at (505) 667-7912, (505) 500-2273 or at jpayne@lanl.gov.

Sincerely,

JENNIFER
PAYNE (Affiliate)
Date: 2022.08.11 13:10:40
-06'00'

Jennifer E. Payne
Division Leader
Environmental Protection and Compliance

Attachment(s): None

Copy: Nasim Jahan, USEPA, Region 6, jahan.nasim@epa.gov
Suzanna Perea, USEPA, Region 6, perea.suzanna@epa.gov
Susan Lucas Kamat, NMED, susan.lucaskamat@state.nm.us
Karen E. Armijo, NA-LA, karen.armijo@nnsa.doe.gov
Marcus Pinzel, NA-LA, marcus.pinzel@nnsa.doe.gov
William R. Mairson, Triad, ALDESHQSS, wrmairson@lanl.gov
Jeannette T. Hyatt, Triad, EWP, jhyatt@lanl.gov
Jennifer E. Payne, Triad, EPC-DO, jpayne@lanl.gov
Kristen Honig, Triad, EPC-DO, khonig@lanl.gov
Steven L. Story, Triad, EPC-CP, story@lanl.gov
Sarah S. Holcomb, Triad, EPC-CP, sholcomb@lanl.gov
Terrill W. Lemke, Triad, EPC-CP, tlemke@lanl.gov
Maxine M. McReynolds, Triad, GC-ESH, mcreynolds@lanl.gov
Cristina A. Mulcahy, Triad, GC-ESH, mulcahy@lanl.gov
emla.docs@em.doe.gov
epc-correspondence@lanl.gov
eshqss-dcrm@lanl.gov
gc-esh@lanl.gov

ATTACHMENT 5: DISCHARGE MONITORING REPORTS

DMR Copy of Record

Permit

| | | |
|---|--|---|
| Permit #: NMR050013 | Permittee: Triad National Security LLC | Facility: LOS ALAMOS NATIONAL LABORATORY |
| Major: No | Permittee Address: PO Box 1663 Los Alamos, NM 87545 | Facility Location: PO BOX 1663 LOS ALAMOS, NM 87545 |
| Permitted Feature: 031 External Outfall | Discharge: 031-P1 Railroad, Local Highway Passenger Motor Freight USPS: Indicator Monitoring: (ph,TSS,COD) | |

Report Dates & Status

| | | |
|---|-------------------------------|---------------------------------|
| Monitoring Period: From 04/01/22 to 06/30/22 | DMR Due Date: 08/31/22 | Status: NetDMR Validated |
|---|-------------------------------|---------------------------------|

Considerations for Form Completion

Principal Executive Officer

| | | |
|--------------------|---------------|-------------------|
| First Name: | Title: | Telephone: |
| Last Name: | | |

No Data Indicator (NODI)

Form NODI: --

| Parameter | | Monitoring Location | Season # | Param. NODI | Quantity or Loading | | | | | Quality or Concentration | | | | | # of Ex. | Frequency of Analysis | Sample Type | | | |
|-----------|------------------------------|---------------------|----------|-------------|---------------------|---------|-------------|---------|-------|--------------------------|---------|-----------------|---------|-------------|----------|-----------------------|-------------|---------|-------------------|-----------|
| Code | Name | | | | Qualifier 1 | Value 1 | Qualifier 2 | Value 2 | Units | Qualifier 1 | Value 1 | Qualifier 2 | Value 2 | Qualifier 3 | | | | Value 3 | Units | |
| 00400 | pH | 1 - Effluent Gross | 0 | -- | Sample | | | | | | | 7.77 | | | | 7.77 | 12 - SU | 0 | 01/90 - Quarterly | GR - GRAB |
| | | | | | Permit Req. | | | | | | | Req Mon MINIMUM | | | | Req Mon MAXIMUM | 12 - SU | | 01/90 - Quarterly | GR - GRAB |
| | | | | | Value NODI | | | | | | | | | | | | | | | |
| 00530 | Solids, total suspended | 1 - Effluent Gross | 0 | -- | Sample | | | | | | | | | | | 25.6 | 19 - mg/L | 0 | 01/90 - Quarterly | GR - GRAB |
| | | | | | Permit Req. | | | | | | | | | | | Req Mon MAXIMUM | 19 - mg/L | | 01/90 - Quarterly | GR - GRAB |
| | | | | | Value NODI | | | | | | | | | | | | | | | |
| 81017 | Chemical Oxygen Demand [COD] | 1 - Effluent Gross | 0 | -- | Sample | | | | | | | | | | | 149.0 | 19 - mg/L | 0 | 01/90 - Quarterly | GR - GRAB |
| | | | | | Permit Req. | | | | | | | | | | | Req Mon MAXIMUM | 19 - mg/L | | 01/90 - Quarterly | GR - GRAB |
| | | | | | Value NODI | | | | | | | | | | | | | | | |

Submission Note

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

Edit Check Errors

No errors.

Comments

LA-UR-22-28974

Attachments

No attachments.

Report Last Saved By

Triad National Security LLC

User: leslie@lanl.gov
 Name: Leslie Dale
 E-Mail: leslie@lanl.gov
 Date/Time: 2022-08-30 06:00 (Time Zone: -05:00)

Report Last Signed By

User: TERRILLEMKE
 Name: Terrill Lemke
 E-Mail: tlemke@lanl.gov
 Date/Time: 2022-08-31 13:42 (Time Zone: -05:00)

DMR Copy of Record

Permit

| | | |
|---|---|---|
| Permit #: NMR050013 | Permittee: Triad National Security LLC | Facility: LOS ALAMOS NATIONAL LABORATORY |
| Major: No | Permittee Address: PO Box 1663 Los Alamos, NM 87545 | Facility Location: PO BOX 1663 LOS ALAMOS, NM 87545 |
| Permitted Feature: 031 External Outfall | Discharge: 031-P1 Railroad, Local Highway Passenger Motor Freight USPS: Indicator Monitoring: (ph,TSS,COD) | |

Report Dates & Status

| | | |
|---|-------------------------------|---------------------------------|
| Monitoring Period: From 07/01/22 to 09/30/22 | DMR Due Date: 11/30/22 | Status: NetDMR Validated |
|---|-------------------------------|---------------------------------|

Considerations for Form Completion

Principal Executive Officer

| | | |
|--------------------|---------------|-------------------|
| First Name: | Title: | Telephone: |
| Last Name: | | |

No Data Indicator (NODI)

Form NODI: --

| Parameter | | Monitoring Location | Season # | Param. NODI | | Quantity or Loading | | | | | Quality or Concentration | | | | | # of Ex. | Frequency of Analysis | Sample Type | | | | | |
|-----------|------------------------------|---------------------|----------|-------------|-------------|---------------------|---------|-------------|---------|-------|--------------------------|---------|-------------|---------|-------------|-----------|-----------------------|-------------------|-------------------|-----------------|-------------------|-------------------|-----------|
| Code | Name | | | | | Qualifier 1 | Value 1 | Qualifier 2 | Value 2 | Units | Qualifier 1 | Value 1 | Qualifier 2 | Value 2 | Qualifier 3 | | | | Value 3 | Units | | | |
| 00400 | pH | 1 - Effluent Gross | 0 | -- | Sample | | | | | | | 8.29 | | | | 8.29 | 12 - SU | 0 | 01/90 - Quarterly | GR - GRAB | | | |
| | | | | | Permit Req. | | | | | | | | | | | | | | Req Mon MINIMUM | Req Mon MAXIMUM | 12 - SU | 01/90 - Quarterly | GR - GRAB |
| | | | | | Value NODI | | | | | | | | | | | | | | | | | | |
| 00530 | Solids, total suspended | 1 - Effluent Gross | 0 | -- | Sample | | | | | | | | | | 21.0 | 19 - mg/L | 0 | 01/90 - Quarterly | GR - GRAB | | | | |
| | | | | | Permit Req. | | | | | | | | | | | | | | Req Mon MAXIMUM | 19 - mg/L | 01/90 - Quarterly | GR - GRAB | |
| | | | | | Value NODI | | | | | | | | | | | | | | | | | | |
| 81017 | Chemical Oxygen Demand [COD] | 1 - Effluent Gross | 0 | -- | Sample | | | | | | | | | | 56.8 | 19 - mg/L | 0 | 01/90 - Quarterly | GR - GRAB | | | | |
| | | | | | Permit Req. | | | | | | | | | | | | | | Req Mon MAXIMUM | 19 - mg/L | 01/90 - Quarterly | GR - GRAB | |
| | | | | | Value NODI | | | | | | | | | | | | | | | | | | |

Submission Note

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

Edit Check Errors

No errors.

Comments

LA-UR-22-32029

Attachments

No attachments.

Report Last Saved By

Triad National Security LLC

User: leslie@lanl.gov
 Name: Leslie Dale
 E-Mail: leslie@lanl.gov
 Date/Time: 2022-11-15 16:10 (Time Zone: -06:00)

Report Last Signed By

User: TERRILLEMKE
 Name: Terrill Lemke
 E-Mail: tlemke@lanl.gov
 Date/Time: 2022-11-17 15:36 (Time Zone: -06:00)

DMR Copy of Record

Permit

| | | |
|---|--|---|
| Permit #: NMR050013 | Permittee: Triad National Security LLC | Facility: LOS ALAMOS NATIONAL LABORATORY |
| Major: No | Permittee Address: PO Box 1663 Los Alamos, NM 87545 | Facility Location: PO BOX 1663 LOS ALAMOS, NM 87545 |
| Permitted Feature: 032 External Outfall | Discharge: 032-P1 Railroad, Local Highway Passenger Motor Freight USPS: Indicator Monitoring: (ph,TSS,COD) | |

Report Dates & Status

| | | |
|---|-------------------------------|---------------------------------|
| Monitoring Period: From 04/01/22 to 06/30/22 | DMR Due Date: 08/31/22 | Status: NetDMR Validated |
|---|-------------------------------|---------------------------------|

Considerations for Form Completion

Principal Executive Officer

| | | |
|--------------------|---------------|-------------------|
| First Name: | Title: | Telephone: |
| Last Name: | | |

No Data Indicator (NODI)

Form NODI: --

| Parameter | | Monitoring Location | Season # | Param. NODI | Quantity or Loading | | | | | Quality or Concentration | | | | | # of Ex. | Frequency of Analysis | Sample Type | | | |
|-----------|------------------------------|---------------------|----------|-------------|---------------------|---------|-------------|---------|-------|--------------------------|-----------------|-------------|---------|-------------|----------|-----------------------|-------------|-------------------|-------------------|-----------|
| Code | Name | | | | Qualifier 1 | Value 1 | Qualifier 2 | Value 2 | Units | Qualifier 1 | Value 1 | Qualifier 2 | Value 2 | Qualifier 3 | | | | Value 3 | Units | |
| 00400 | pH | 1 - Effluent Gross | 0 | -- | Sample | | | | | | 8.12 | | | | 8.12 | 12 - SU | 0 | 01/90 - Quarterly | GR - GRAB | |
| | | | | | Permit Req. | | | | | | Req Mon MINIMUM | | | | | Req Mon MAXIMUM | | 12 - SU | 01/90 - Quarterly | GR - GRAB |
| | | | | | Value NODI | | | | | | | | | | | | | | | |
| 00530 | Solids, total suspended | 1 - Effluent Gross | 0 | -- | Sample | | | | | | | | | | 14.2 | 19 - mg/L | 0 | 01/90 - Quarterly | GR - GRAB | |
| | | | | | Permit Req. | | | | | | | | | | | Req Mon MAXIMUM | | 19 - mg/L | 01/90 - Quarterly | GR - GRAB |
| | | | | | Value NODI | | | | | | | | | | | | | | | |
| 81017 | Chemical Oxygen Demand [COD] | 1 - Effluent Gross | 0 | -- | Sample | | | | | | | | | | 83.5 | 19 - mg/L | 0 | 01/90 - Quarterly | GR - GRAB | |
| | | | | | Permit Req. | | | | | | | | | | | Req Mon MAXIMUM | | 19 - mg/L | 01/90 - Quarterly | GR - GRAB |
| | | | | | Value NODI | | | | | | | | | | | | | | | |

Submission Note

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

Edit Check Errors

No errors.

Comments

LA-UR-22-28974

Attachments

No attachments.

Report Last Saved By

Triad National Security LLC

User: leslie@lanl.gov
 Name: Leslie Dale
 E-Mail: leslie@lanl.gov
 Date/Time: 2022-08-30 06:00 (Time Zone: -05:00)

Report Last Signed By

User: TERRILLEMKE
 Name: Terrill Lemke
 E-Mail: tlemke@lanl.gov
 Date/Time: 2022-08-31 13:42 (Time Zone: -05:00)

DMR Copy of Record

Permit

| | | |
|---|---|---|
| Permit #: NMR050013 | Permittee: Triad National Security LLC | Facility: LOS ALAMOS NATIONAL LABORATORY |
| Major: No | Permittee Address: PO Box 1663 Los Alamos, NM 87545 | Facility Location: PO BOX 1663 LOS ALAMOS, NM 87545 |
| Permitted Feature: 032 External Outfall | Discharge: 032-P1 Railroad, Local Highway Passenger Motor Freight USPS: Indicator Monitoring: (ph,TSS,COD) | |

Report Dates & Status

| | | |
|---|-------------------------------|---------------------------------|
| Monitoring Period: From 07/01/22 to 09/30/22 | DMR Due Date: 11/30/22 | Status: NetDMR Validated |
|---|-------------------------------|---------------------------------|

Considerations for Form Completion

Principal Executive Officer

| | | |
|--------------------|---------------|-------------------|
| First Name: | Title: | Telephone: |
| Last Name: | | |

No Data Indicator (NODI)

Form NODI: --

| Parameter | | Monitoring Location | Season # | Param. NODI | Quantity or Loading | | | | | Quality or Concentration | | | | | # of Ex. | Frequency of Analysis | Sample Type | | |
|-----------|------------------------------|---------------------|----------|-------------|---------------------|---------|-------------|---------|-------|--------------------------|-----------------|-------------|---------|-------------|-----------------|-----------------------|-------------|-------------------|-----------|
| Code | Name | | | | Qualifier 1 | Value 1 | Qualifier 2 | Value 2 | Units | Qualifier 1 | Value 1 | Qualifier 2 | Value 2 | Qualifier 3 | | | | Value 3 | Units |
| 00400 | pH | 1 - Effluent Gross | 0 | -- | Sample | | | | | | 8.5 | | | | 8.5 | 12 - SU | 0 | 01/90 - Quarterly | GR - GRAB |
| | | | | | Permit Req. | | | | | | Req Mon MINIMUM | | | | Req Mon MAXIMUM | 12 - SU | | 01/90 - Quarterly | GR - GRAB |
| | | | | | Value NODI | | | | | | | | | | | | | | |
| 00530 | Solids, total suspended | 1 - Effluent Gross | 0 | -- | Sample | | | | | | | | | | 4.47 | 19 - mg/L | 0 | 01/90 - Quarterly | GR - GRAB |
| | | | | | Permit Req. | | | | | | | | | | Req Mon MAXIMUM | 19 - mg/L | | 01/90 - Quarterly | GR - GRAB |
| | | | | | Value NODI | | | | | | | | | | | | | | |
| 81017 | Chemical Oxygen Demand [COD] | 1 - Effluent Gross | 0 | -- | Sample | | | | | | | | | | 161.0 | 19 - mg/L | 0 | 01/90 - Quarterly | GR - GRAB |
| | | | | | Permit Req. | | | | | | | | | | Req Mon MAXIMUM | 19 - mg/L | | 01/90 - Quarterly | GR - GRAB |
| | | | | | Value NODI | | | | | | | | | | | | | | |

Submission Note

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

Edit Check Errors

No errors.

Comments

LA-UR-22-32029

Attachments

No attachments.

Report Last Saved By

Triad National Security LLC

User: leslie@lanl.gov
 Name: Leslie Dale
 E-Mail: leslie@lanl.gov
 Date/Time: 2022-11-15 16:10 (Time Zone: -06:00)

Report Last Signed By

User: TERRILLEMKE
 Name: Terrill Lemke
 E-Mail: tlemke@lanl.gov
 Date/Time: 2022-11-17 15:36 (Time Zone: -06:00)

DMR Copy of Record

Permit

| | | | | | |
|---------------------------|-------------------------|---------------------------|---|---------------------------|-------------------------------------|
| Permit #: | NMR050013 | Permittee: | Triad National Security LLC | Facility: | LOS ALAMOS NATIONAL LABORATORY |
| Major: | No | Permittee Address: | PO Box 1663 Los Alamos, NM 87545 | Facility Location: | PO BOX 1663 LOS ALAMOS, NM 87545 |
| Permitted Feature: | 037 External Outfall | Discharge: | 037-P1 Railroad, Local Highway Passenger Motor Freight USPS: Indicator Monitoring: (ph,TSS,COD) | | |

Report Dates & Status

| | | | | | |
|---------------------------|----------------------------------|----------------------|-----------------|----------------|-------------------------|
| Monitoring Period: | From 04/01/22 to 06/30/22 | DMR Due Date: | 08/31/22 | Status: | NetDMR Validated |
|---------------------------|----------------------------------|----------------------|-----------------|----------------|-------------------------|

Considerations for Form Completion

Principal Executive Officer

| | | | | | |
|--------------------|--|---------------|--|-------------------|--|
| First Name: | | Title: | | Telephone: | |
| Last Name: | | | | | |

No Data Indicator (NODI)

Form NODI: --

| Parameter | | Monitoring Location | Season # | Param. NODI | | Quantity or Loading | | | | | Quality or Concentration | | | | | # of Ex. | Frequency of Analysis | Sample Type | | | | |
|-----------|------------------------------|---------------------|----------|-------------|-------------|---------------------|---------|-------------|---------|-------|--------------------------|---------|-------------|---------|-------------|----------|-----------------------|-------------|-------------------|-----------|-------------------|-----------|
| Code | Name | | | | | Qualifier 1 | Value 1 | Qualifier 2 | Value 2 | Units | Qualifier 1 | Value 1 | Qualifier 2 | Value 2 | Qualifier 3 | Value 3 | Units | | | | | |
| 00400 | pH | 1 - Effluent Gross | 0 | -- | Sample | | | | | | | 8.3 | | | | 8.3 | 12 - SU | 0 | 01/90 - Quarterly | GR - GRAB | | |
| | | | | | Permit Req. | | | | | | | | | | | | | | | | 01/90 - Quarterly | GR - GRAB |
| | | | | | Value NODI | | | | | | | | | | | | | | | | | |
| 00530 | Solids, total suspended | 1 - Effluent Gross | 0 | -- | Sample | | | | | | | | | | | 69.8 | 19 - mg/L | 0 | 01/90 - Quarterly | GR - GRAB | | |
| | | | | | Permit Req. | | | | | | | | | | | | | | | | 01/90 - Quarterly | GR - GRAB |
| | | | | | Value NODI | | | | | | | | | | | | | | | | | |
| 81017 | Chemical Oxygen Demand [COD] | 1 - Effluent Gross | 0 | -- | Sample | | | | | | | | | | < | 8.95 | 19 - mg/L | 0 | 01/90 - Quarterly | GR - GRAB | | |
| | | | | | Permit Req. | | | | | | | | | | | | | | | | 01/90 - Quarterly | GR - GRAB |
| | | | | | Value NODI | | | | | | | | | | | | | | | | | |

Submission Note

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

Edit Check Errors

No errors.

Comments

LA-UR-22-28974

Attachments

No attachments.

Report Last Saved By

Triad National Security LLC

User: leslie@lanl.gov
 Name: Leslie Dale
 E-Mail: leslie@lanl.gov
 Date/Time: 2022-08-30 06:00 (Time Zone: -05:00)

Report Last Signed By

User: TERRILLEMKE
 Name: Terrill Lemke
 E-Mail: tlemke@lanl.gov
 Date/Time: 2022-08-31 13:42 (Time Zone: -05:00)

DMR Copy of Record

Permit

| | | |
|---|---|---|
| Permit #: NMR050013 | Permittee: Triad National Security LLC | Facility: LOS ALAMOS NATIONAL LABORATORY |
| Major: No | Permittee Address: PO Box 1663 Los Alamos, NM 87545 | Facility Location: PO BOX 1663 LOS ALAMOS, NM 87545 |
| Permitted Feature: 037 External Outfall | Discharge: 037-P1 Railroad, Local Highway Passenger Motor Freight USPS: Indicator Monitoring: (ph,TSS,COD) | |

Report Dates & Status

| | | |
|---|-------------------------------|---------------------------------|
| Monitoring Period: From 07/01/22 to 09/30/22 | DMR Due Date: 11/30/22 | Status: NetDMR Validated |
|---|-------------------------------|---------------------------------|

Considerations for Form Completion

Principal Executive Officer

| | | |
|--------------------|---------------|-------------------|
| First Name: | Title: | Telephone: |
| Last Name: | | |

No Data Indicator (NODI)

Form NODI: --

| Parameter | | Monitoring Location | Season # | Param. NODI | Quantity or Loading | | | | | Quality or Concentration | | | | | # of Ex. | Frequency of Analysis | Sample Type | | | |
|-----------|------------------------------|---------------------|----------|-------------|---------------------|---------|-------------|---------|-------|--------------------------|-----------------|-------------|---------|-------------|----------|-----------------------|-------------|---|-------------------|-----------|
| Code | Name | | | | Qualifier 1 | Value 1 | Qualifier 2 | Value 2 | Units | Qualifier 1 | Value 1 | Qualifier 2 | Value 2 | Qualifier 3 | Value 3 | Units | | | | |
| 00400 | pH | 1 - Effluent Gross | 0 | -- | Sample | | | | | | 8.06 | | | | | 8.06 | 12 - SU | 0 | 01/90 - Quarterly | GR - GRAB |
| | | | | | Permit Req. | | | | | | Req Mon MINIMUM | | | | | Req Mon MAXIMUM | 12 - SU | | 01/90 - Quarterly | GR - GRAB |
| | | | | | Value NODI | | | | | | | | | | | | | | | |
| 00530 | Solids, total suspended | 1 - Effluent Gross | 0 | -- | Sample | | | | | | | | | | | 479.0 | 19 - mg/L | 0 | 01/90 - Quarterly | GR - GRAB |
| | | | | | Permit Req. | | | | | | | | | | | Req Mon MAXIMUM | 19 - mg/L | | 01/90 - Quarterly | GR - GRAB |
| | | | | | Value NODI | | | | | | | | | | | | | | | |
| 81017 | Chemical Oxygen Demand [COD] | 1 - Effluent Gross | 0 | -- | Sample | | | | | | | | | | | 15.1 | 19 - mg/L | 0 | 01/90 - Quarterly | GR - GRAB |
| | | | | | Permit Req. | | | | | | | | | | | Req Mon MAXIMUM | 19 - mg/L | | 01/90 - Quarterly | GR - GRAB |
| | | | | | Value NODI | | | | | | | | | | | | | | | |

Submission Note

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

Edit Check Errors

No errors.

Comments

LA-UR-22-32029

Attachments

No attachments.

Report Last Saved By

Triad National Security LLC

User: leslie@lanl.gov
 Name: Leslie Dale
 E-Mail: leslie@lanl.gov
 Date/Time: 2022-11-15 16:10 (Time Zone: -06:00)

Report Last Signed By

User: TERRILLEMKE
 Name: Terrill Lemke
 E-Mail: tlemke@lanl.gov
 Date/Time: 2022-11-17 15:36 (Time Zone: -06:00)

DMR Copy of Record

Permit

| | | |
|---|---|---|
| Permit #: NMR050013 | Permittee: Triad National Security LLC | Facility: LOS ALAMOS NATIONAL LABORATORY |
| Major: No | Permittee Address: PO Box 1663 Los Alamos, NM 87545 | Facility Location: PO BOX 1663 LOS ALAMOS, NM 87545 |
| Permitted Feature: 039 External Outfall | Discharge: 039-P1 Railroad, Local Highway Passenger Motor Freight USPS: Indicator Monitoring: (ph,TSS,COD) | |

Report Dates & Status

| | | |
|---|-------------------------------|---------------------------------|
| Monitoring Period: From 04/01/22 to 06/30/22 | DMR Due Date: 08/31/22 | Status: NetDMR Validated |
|---|-------------------------------|---------------------------------|

Considerations for Form Completion

Principal Executive Officer

| | | |
|--------------------|---------------|-------------------|
| First Name: | Title: | Telephone: |
| Last Name: | | |

No Data Indicator (NODI)

Form NODI: --

| Parameter | | Monitoring Location | Season # | Param. NODI | Quantity or Loading | | | | | Quality or Concentration | | | | | # of Ex. | Frequency of Analysis | Sample Type | | | |
|-----------|------------------------------|---------------------|----------|-------------|---------------------|---------|-------------|---------|-------|--------------------------|-----------------|-------------|---------|-------------|----------|-----------------------|-------------|-------------------|-------------------|-----------|
| Code | Name | | | | Qualifier 1 | Value 1 | Qualifier 2 | Value 2 | Units | Qualifier 1 | Value 1 | Qualifier 2 | Value 2 | Qualifier 3 | | | | Value 3 | Units | |
| 00400 | pH | 1 - Effluent Gross | 0 | -- | Sample | | | | | | 9.18 | | | | 9.18 | 12 - SU | 0 | 01/90 - Quarterly | GR - GRAB | |
| | | | | | Permit Req. | | | | | | Req Mon MINIMUM | | | | | Req Mon MAXIMUM | | 12 - SU | 01/90 - Quarterly | GR - GRAB |
| | | | | | Value NODI | | | | | | | | | | | | | | | |
| 00530 | Solids, total suspended | 1 - Effluent Gross | 0 | -- | Sample | | | | | | | | | | 3250.0 | 19 - mg/L | 0 | 01/90 - Quarterly | GR - GRAB | |
| | | | | | Permit Req. | | | | | | | | | | | Req Mon MAXIMUM | | 19 - mg/L | 01/90 - Quarterly | GR - GRAB |
| | | | | | Value NODI | | | | | | | | | | | | | | | |
| 81017 | Chemical Oxygen Demand [COD] | 1 - Effluent Gross | 0 | -- | Sample | | | | | | | | | | 15.4 | 19 - mg/L | 0 | 01/90 - Quarterly | GR - GRAB | |
| | | | | | Permit Req. | | | | | | | | | | | Req Mon MAXIMUM | | 19 - mg/L | 01/90 - Quarterly | GR - GRAB |
| | | | | | Value NODI | | | | | | | | | | | | | | | |

Submission Note

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

Edit Check Errors

No errors.

Comments

LA-UR-22-28974

Attachments

No attachments.

Report Last Saved By

Triad National Security LLC

User: leslie@lanl.gov
 Name: Leslie Dale
 E-Mail: leslie@lanl.gov
 Date/Time: 2022-08-30 06:00 (Time Zone: -05:00)

Report Last Signed By

User: TERRILLEMKE
 Name: Terrill Lemke
 E-Mail: tlemke@lanl.gov
 Date/Time: 2022-08-31 13:42 (Time Zone: -05:00)

DMR Copy of Record

Permit

| | | | | | |
|---------------------------|-------------------------|---------------------------|-------------------------------------|---------------------------|-------------------------------------|
| Permit #: | NMR050013 | Permittee: | Triad National Security LLC | Facility: | LOS ALAMOS NATIONAL LABORATORY |
| Major: | No | Permittee Address: | PO Box 1663 Los Alamos, NM 87545 | Facility Location: | PO BOX 1663 LOS ALAMOS, NM 87545 |
| Permitted Feature: | 039 External Outfall | Discharge: | 039-IW Impaired Water | | |

Report Dates & Status

| | | | | | |
|---------------------------|----------------------------------|----------------------|-----------------|----------------|-------------------------|
| Monitoring Period: | From 07/01/21 to 06/30/22 | DMR Due Date: | 08/31/22 | Status: | NetDMR Validated |
|---------------------------|----------------------------------|----------------------|-----------------|----------------|-------------------------|

Considerations for Form Completion

Principal Executive Officer

| | | | | | |
|--------------------|--|---------------|--|-------------------|--|
| First Name: | | Title: | | Telephone: | |
| Last Name: | | | | | |

No Data Indicator (NODI)

Form NODI: --

| Code | Parameter Name | Monitoring Location | Season # | Param. NODI | | Quantity or Loading | | | | | Quality or Concentration | | | | | # of Ex. | Frequency of Analysis | Sample Type | | |
|---------|----------------------------------|---------------------|----------|-------------|-------------|---------------------|---------|-------------|---------|-------|--------------------------|---------|-------------|---------|-------------|-----------------|-----------------------|-------------|----------------|-----------|
| | | | | | | Qualifier 1 | Value 1 | Qualifier 2 | Value 2 | Units | Qualifier 1 | Value 1 | Qualifier 2 | Value 2 | Qualifier 3 | | | | Value 3 | Units |
| 01040 | Copper, dissolved [as Cu] | 1 - Effluent Gross | 0 | -- | Sample | | | | | | | | | | | 55.5 | 28 - ug/L | 0 | 01/YR - Annual | GR - GRAB |
| | | | | | Permit Req. | | | | | | | | | | | Req Mon MAXIMUM | 28 - ug/L | | 01/YR - Annual | GR - GRAB |
| | | | | | Value NODI | | | | | | | | | | | | | | | |
| 01104 | Aluminum, total recoverable | 1 - Effluent Gross | 0 | -- | Sample | | | | | | | | | | | 243000.0 | 28 - ug/L | 0 | 01/YR - Annual | GR - GRAB |
| | | | | | Permit Req. | | | | | | | | | | | Req Mon MAXIMUM | 28 - ug/L | | 01/YR - Annual | GR - GRAB |
| | | | | | Value NODI | | | | | | | | | | | | | | | |
| X 39516 | Polychlorinated biphenyls [PCBs] | 1 - Effluent Gross | 0 | -- | Sample | | | | | | | | | | | 0.836 | 28 - ug/L | 0 | 01/YR - Annual | GR - GRAB |
| | | | | | Permit Req. | | | | | | | | | | | Req Mon MAXIMUM | 19 - mg/L | | 01/YR - Annual | GR - GRAB |
| | | | | | Value NODI | | | | | | | | | | | | | | | |

Submission Note

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

Edit Check Errors

| Code | Parameter Name | Monitoring Location | Field | Type | Description | Acknowledge |
|-------|----------------------------------|---------------------|-------|------|--|-------------|
| 39516 | Polychlorinated biphenyls [PCBs] | 1 - Effluent Gross | Units | Soft | You have selected units that are different from the units established by your Regulatory Authority. Please contact your Regulatory Authority to discuss the selection of any alternative units. | Yes |

Comments

LA-UR-22-28977

Attachments

No attachments.

Report Last Saved By

Triad National Security LLC

User: leslie@lanl.gov
 Name: Leslie Dale
 E-Mail: leslie@lanl.gov
 Date/Time: 2022-08-30 06:00 (Time Zone: -05:00)

Report Last Signed By

User: TERRILLEMKE
 Name: Terrill Lemke
 E-Mail: tlemke@lanl.gov
 Date/Time: 2022-08-31 13:42 (Time Zone: -05:00)

DMR Copy of Record

Permit

| | | |
|---|--|---|
| Permit #: NMR050013 | Permittee: Triad National Security LLC | Facility: LOS ALAMOS NATIONAL LABORATORY |
| Major: No | Permittee Address: PO Box 1663 Los Alamos, NM 87545 | Facility Location: PO BOX 1663 LOS ALAMOS, NM 87545 |
| Permitted Feature: 042 External Outfall | Discharge: 042-P1 Railroad, Local Highway Passenger Motor Freight USPS: Indicator Monitoring: (ph,TSS,COD) | |

Report Dates & Status

| | | |
|---|-------------------------------|---------------------------------|
| Monitoring Period: From 04/01/22 to 06/30/22 | DMR Due Date: 08/31/22 | Status: NetDMR Validated |
|---|-------------------------------|---------------------------------|

Considerations for Form Completion

Principal Executive Officer

| | | |
|--------------------|---------------|-------------------|
| First Name: | Title: | Telephone: |
| Last Name: | | |

No Data Indicator (NODI)

Form NODI: --

| Parameter | | Monitoring Location | Season # | Param. NODI | Quantity or Loading | | | | | Quality or Concentration | | | | | # of Ex. | Frequency of Analysis | Sample Type | | | |
|-----------|------------------------------|---------------------|----------|-------------|---------------------|---------|-------------|---------|-------|--------------------------|-----------------|-------------|---------|-------------|----------|-----------------------|-------------|-------------------|-------------------|-----------|
| Code | Name | | | | Qualifier 1 | Value 1 | Qualifier 2 | Value 2 | Units | Qualifier 1 | Value 1 | Qualifier 2 | Value 2 | Qualifier 3 | | | | Value 3 | Units | |
| 00400 | pH | 1 - Effluent Gross | 0 | -- | Sample | | | | | | 7.36 | | | | 7.36 | 12 - SU | 0 | 01/90 - Quarterly | GR - GRAB | |
| | | | | | Permit Req. | | | | | | Req Mon MINIMUM | | | | | Req Mon MAXIMUM | | 12 - SU | 01/90 - Quarterly | GR - GRAB |
| | | | | | Value NODI | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| 00530 | Solids, total suspended | 1 - Effluent Gross | 0 | -- | Sample | | | | | | | | | | 72.1 | 19 - mg/L | 0 | 01/90 - Quarterly | GR - GRAB | |
| | | | | | Permit Req. | | | | | | | | | | | Req Mon MAXIMUM | | 19 - mg/L | 01/90 - Quarterly | GR - GRAB |
| | | | | | Value NODI | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| 81017 | Chemical Oxygen Demand [COD] | 1 - Effluent Gross | 0 | -- | Sample | | | | | | | | | | 91.2 | 19 - mg/L | 0 | 01/90 - Quarterly | GR - GRAB | |
| | | | | | Permit Req. | | | | | | | | | | | Req Mon MAXIMUM | | 19 - mg/L | 01/90 - Quarterly | GR - GRAB |
| | | | | | Value NODI | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |

Submission Note

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

Edit Check Errors

No errors.

Comments

LA-UR-22-28974

Attachments

No attachments.

Report Last Saved By

Triad National Security LLC

User: leslie@lanl.gov
 Name: Leslie Dale
 E-Mail: leslie@lanl.gov
 Date/Time: 2022-08-30 06:00 (Time Zone: -05:00)

Report Last Signed By

User: TERRILLEMKE
 Name: Terrill Lemke
 E-Mail: tlemke@lanl.gov
 Date/Time: 2022-08-31 13:42 (Time Zone: -05:00)

DMR Copy of Record

Permit

| | | |
|---|---|---|
| Permit #: NMR050013 | Permittee: Triad National Security LLC | Facility: LOS ALAMOS NATIONAL LABORATORY |
| Major: No | Permittee Address: PO Box 1663 Los Alamos, NM 87545 | Facility Location: PO BOX 1663 LOS ALAMOS, NM 87545 |
| Permitted Feature: 042 External Outfall | Discharge: 042-P1 Railroad, Local Highway Passenger Motor Freight USPS: Indicator Monitoring: (ph,TSS,COD) | |

Report Dates & Status

| | | |
|---|-------------------------------|---------------------------------|
| Monitoring Period: From 07/01/22 to 09/30/22 | DMR Due Date: 11/30/22 | Status: NetDMR Validated |
|---|-------------------------------|---------------------------------|

Considerations for Form Completion

Principal Executive Officer

| | | |
|--------------------|---------------|-------------------|
| First Name: | Title: | Telephone: |
| Last Name: | | |

No Data Indicator (NODI)

Form NODI: --

| Parameter | | Monitoring Location | Season # | Param. NODI | | Quantity or Loading | | | | | Quality or Concentration | | | | | # of Ex. | Frequency of Analysis | Sample Type | | | | | | |
|-----------|------------------------------|---------------------|----------|-------------|-------------|---------------------|---------|-------------|---------|-------|--------------------------|---------|-------------|---------|-------------|----------|-----------------------|-------------|-------------------|-----------|-----------------|-----------|-------------------|-----------|
| Code | Name | | | | | Qualifier 1 | Value 1 | Qualifier 2 | Value 2 | Units | Qualifier 1 | Value 1 | Qualifier 2 | Value 2 | Qualifier 3 | | | | Value 3 | Units | | | | |
| 00400 | pH | 1 - Effluent Gross | 0 | -- | Sample | | | | | | | | 8.49 | | | 8.49 | 12 - SU | 0 | 01/90 - Quarterly | GR - GRAB | | | | |
| | | | | | Permit Req. | | | | | | | | | | | | Req Mon MINIMUM | | | | Req Mon MAXIMUM | 12 - SU | 01/90 - Quarterly | GR - GRAB |
| | | | | | Value NODI | | | | | | | | | | | | | | | | | | | |
| 00530 | Solids, total suspended | 1 - Effluent Gross | 0 | -- | Sample | | | | | | | | | | | 7.84 | 19 - mg/L | 0 | 01/90 - Quarterly | GR - GRAB | | | | |
| | | | | | Permit Req. | | | | | | | | | | | | | | | | Req Mon MAXIMUM | 19 - mg/L | 01/90 - Quarterly | GR - GRAB |
| | | | | | Value NODI | | | | | | | | | | | | | | | | | | | |
| 81017 | Chemical Oxygen Demand [COD] | 1 - Effluent Gross | 0 | -- | Sample | | | | | | | | | | | 49.1 | 19 - mg/L | 0 | 01/90 - Quarterly | GR - GRAB | | | | |
| | | | | | Permit Req. | | | | | | | | | | | | | | | | Req Mon MAXIMUM | 19 - mg/L | 01/90 - Quarterly | GR - GRAB |
| | | | | | Value NODI | | | | | | | | | | | | | | | | | | | |

Submission Note

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

Edit Check Errors

No errors.

Comments

LA-UR-22-32029

Attachments

No attachments.

Report Last Saved By

Triad National Security LLC

User: leslie@lanl.gov
 Name: Leslie Dale
 E-Mail: leslie@lanl.gov
 Date/Time: 2022-11-15 16:10 (Time Zone: -06:00)

Report Last Signed By

User: TERRILLEMKE
 Name: Terrill Lemke
 E-Mail: tlemke@lanl.gov
 Date/Time: 2022-11-17 15:36 (Time Zone: -06:00)

DMR Copy of Record

Permit

| | | | | | |
|---------------------------|-------------------------|---------------------------|---|---------------------------|-------------------------------------|
| Permit #: | NMR050013 | Permittee: | Triad National Security LLC | Facility: | LOS ALAMOS NATIONAL LABORATORY |
| Major: | No | Permittee Address: | PO Box 1663 Los Alamos, NM 87545 | Facility Location: | PO BOX 1663 LOS ALAMOS, NM 87545 |
| Permitted Feature: | 031 External Outfall | Discharge: | 031-P1 Railroad, Local Highway Passenger Motor Freight USPS: Indicator Monitoring: (ph,TSS,COD) | | |

Report Dates & Status

| | | | | | |
|---------------------------|----------------------------------|----------------------|-----------------|----------------|-------------------------|
| Monitoring Period: | From 01/01/22 to 03/31/22 | DMR Due Date: | 05/31/22 | Status: | NetDMR Validated |
|---------------------------|----------------------------------|----------------------|-----------------|----------------|-------------------------|

Considerations for Form Completion

Principal Executive Officer

| | | | | | |
|--------------------|--|---------------|--|-------------------|--|
| First Name: | | Title: | | Telephone: | |
| Last Name: | | | | | |

No Data Indicator (NODI)

Form NODI: --

| Code | Parameter Name | Monitoring Location | Season # | Param. NODI | | Quantity or Loading | | | | Quality or Concentration | | | | | # of Ex. | Frequency of Analysis | Sample Type | | |
|-------|------------------------------|---------------------|----------|-------------|-------------|---------------------|---------|-------------|---------|--------------------------|-------------|---------|-------------|---------|----------|-----------------------|-------------|-------------------|-----------|
| | | | | | | Qualifier 1 | Value 1 | Qualifier 2 | Value 2 | Units | Qualifier 1 | Value 1 | Qualifier 2 | Value 2 | | | | Qualifier 3 | Value 3 |
| 00400 | pH | 1 - Effluent Gross | 0 | -- | Sample | | | | | | | | | | | | | | |
| | | | | | Permit Req. | | | | | | | | | | | | | 01/90 - Quarterly | GR - GRAB |
| | | | | | Value NODI | | | | | | | | | | | | | | |
| 00530 | Solids, total suspended | 1 - Effluent Gross | 0 | -- | Sample | | | | | | | | | | | | | | |
| | | | | | Permit Req. | | | | | | | | | | | | | 01/90 - Quarterly | GR - GRAB |
| | | | | | Value NODI | | | | | | | | | | | | | | |
| 81017 | Chemical Oxygen Demand [COD] | 1 - Effluent Gross | 0 | -- | Sample | | | | | | | | | | | | | | |
| | | | | | Permit Req. | | | | | | | | | | | | | 01/90 - Quarterly | GR - GRAB |
| | | | | | Value NODI | | | | | | | | | | | | | | |

Submission Note

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

Edit Check Errors

No errors.

Comments

LA-UR-22-23400

Attachments

No attachments.

Report Last Saved By

Triad National Security LLC

| | |
|------------|--------------------------------------|
| User: | leslie@lanl.gov |
| Name: | Leslie Dale |
| E-Mail: | leslie@lanl.gov |
| Date/Time: | 2022-04-21 12:20 (Time Zone: -05:00) |

Report Last Signed By

| | |
|------------|--------------------------------------|
| User: | TERRILLEMKE |
| Name: | Terrill Lemke |
| E-Mail: | tlemke@lanl.gov |
| Date/Time: | 2022-04-21 13:41 (Time Zone: -05:00) |

DMR Copy of Record

Permit

| | | | | | |
|---------------------------|-------------------------|---------------------------|---|---------------------------|-------------------------------------|
| Permit #: | NMR050013 | Permittee: | Triad National Security LLC | Facility: | LOS ALAMOS NATIONAL LABORATORY |
| Major: | No | Permittee Address: | PO Box 1663 Los Alamos, NM 87545 | Facility Location: | PO BOX 1663 LOS ALAMOS, NM 87545 |
| Permitted Feature: | 032 External Outfall | Discharge: | 032-P1 Railroad, Local Highway Passenger Motor Freight USPS: Indicator Monitoring: (ph,TSS,COD) | | |

Report Dates & Status

| | | | | | |
|---------------------------|----------------------------------|----------------------|-----------------|----------------|-------------------------|
| Monitoring Period: | From 01/01/22 to 03/31/22 | DMR Due Date: | 05/31/22 | Status: | NetDMR Validated |
|---------------------------|----------------------------------|----------------------|-----------------|----------------|-------------------------|

Considerations for Form Completion

Principal Executive Officer

| | | | | | |
|--------------------|--|---------------|--|-------------------|--|
| First Name: | | Title: | | Telephone: | |
| Last Name: | | | | | |

No Data Indicator (NODI)

Form NODI: --

| Parameter | | Monitoring Location | Season # | Param. NODI | | Quantity or Loading | | | | | Quality or Concentration | | | | | # of Ex. | Frequency of Analysis | Sample Type | | |
|-----------|------------------------------|---------------------|----------|-------------|-------------|---------------------|---------|-------------|---------|-------|--------------------------|---------|-------------|---------|-------------|----------|-----------------------|-------------------|-----------|-------|
| Code | Name | | | | | Qualifier 1 | Value 1 | Qualifier 2 | Value 2 | Units | Qualifier 1 | Value 1 | Qualifier 2 | Value 2 | Qualifier 3 | | | | Value 3 | Units |
| 00400 | pH | 1 - Effluent Gross | 0 | -- | Sample | | | | | | | | | | | | | 01/90 - Quarterly | GR - GRAB | |
| | | | | | Permit Req. | | | | | | | | | | | | | | | |
| | | | | | Value NODI | | | | | | | | | | | | | | | |
| 00530 | Solids, total suspended | 1 - Effluent Gross | 0 | -- | Sample | | | | | | | | | | | | | 01/90 - Quarterly | GR - GRAB | |
| | | | | | Permit Req. | | | | | | | | | | | | | | | |
| | | | | | Value NODI | | | | | | | | | | | | | | | |
| 81017 | Chemical Oxygen Demand [COD] | 1 - Effluent Gross | 0 | -- | Sample | | | | | | | | | | | | | 01/90 - Quarterly | GR - GRAB | |
| | | | | | Permit Req. | | | | | | | | | | | | | | | |
| | | | | | Value NODI | | | | | | | | | | | | | | | |

Submission Note

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

Edit Check Errors

No errors.

Comments

LA-UR-22-23400

Attachments

No attachments.

Report Last Saved By

Triad National Security LLC

User: leslie@lanl.gov
 Name: Leslie Dale
 E-Mail: leslie@lanl.gov
 Date/Time: 2022-04-21 12:20 (Time Zone: -05:00)

Report Last Signed By

User: TERRILLEMKE
 Name: Terrill Lemke
 E-Mail: tlemke@lanl.gov
 Date/Time: 2022-04-21 13:41 (Time Zone: -05:00)

DMR Copy of Record

Permit

| | | | | | |
|---------------------------|-------------------------|---------------------------|---|---------------------------|-------------------------------------|
| Permit #: | NMR050013 | Permittee: | Triad National Security LLC | Facility: | LOS ALAMOS NATIONAL LABORATORY |
| Major: | No | Permittee Address: | PO Box 1663 Los Alamos, NM 87545 | Facility Location: | PO BOX 1663 LOS ALAMOS, NM 87545 |
| Permitted Feature: | 037 External Outfall | Discharge: | 037-P1 Railroad, Local Highway Passenger Motor Freight USPS: Indicator Monitoring: (ph,TSS,COD) | | |

Report Dates & Status

| | | | | | |
|---------------------------|----------------------------------|----------------------|-----------------|----------------|-------------------------|
| Monitoring Period: | From 01/01/22 to 03/31/22 | DMR Due Date: | 05/31/22 | Status: | NetDMR Validated |
|---------------------------|----------------------------------|----------------------|-----------------|----------------|-------------------------|

Considerations for Form Completion

Principal Executive Officer

| | | | | | |
|--------------------|--|---------------|--|-------------------|--|
| First Name: | | Title: | | Telephone: | |
| Last Name: | | | | | |

No Data Indicator (NODI)

Form NODI: --

| Parameter | | Monitoring Location | Season # | Param. NODI | | Quantity or Loading | | | | | Quality or Concentration | | | | | # of Ex. | Frequency of Analysis | Sample Type | | | | |
|-----------|------------------------------|---------------------|----------|-------------|-------------|---------------------|---------|-------------|---------|-------|--------------------------|---------|-------------|---------|-------------|----------|-----------------------|-------------|-------------------|-----------|--|--|
| Code | Name | | | | | Qualifier 1 | Value 1 | Qualifier 2 | Value 2 | Units | Qualifier 1 | Value 1 | Qualifier 2 | Value 2 | Qualifier 3 | Value 3 | Units | | | | | |
| 00400 | pH | 1 - Effluent Gross | 0 | -- | Sample | | | | | | | | | | | | | | 01/90 - Quarterly | GR - GRAB | | |
| | | | | | Permit Req. | | | | | | | | | | | | | | | | | |
| | | | | | Value NODI | | | | | | | | | | | | | | | | | |
| 00530 | Solids, total suspended | 1 - Effluent Gross | 0 | -- | Sample | | | | | | | | | | | | | | 01/90 - Quarterly | GR - GRAB | | |
| | | | | | Permit Req. | | | | | | | | | | | | | | | | | |
| | | | | | Value NODI | | | | | | | | | | | | | | | | | |
| 81017 | Chemical Oxygen Demand [COD] | 1 - Effluent Gross | 0 | -- | Sample | | | | | | | | | | | | | | 01/90 - Quarterly | GR - GRAB | | |
| | | | | | Permit Req. | | | | | | | | | | | | | | | | | |
| | | | | | Value NODI | | | | | | | | | | | | | | | | | |

Submission Note

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

Edit Check Errors

No errors.

Comments

LA-UR-22-23400

Attachments

No attachments.

Report Last Saved By

Triad National Security LLC

User: leslie@lanl.gov
 Name: Leslie Dale
 E-Mail: leslie@lanl.gov
 Date/Time: 2022-04-21 12:20 (Time Zone: -05:00)

Report Last Signed By

User: TERRILLEMKE
 Name: Terrill Lemke
 E-Mail: tlemke@lanl.gov
 Date/Time: 2022-04-21 13:41 (Time Zone: -05:00)

DMR Copy of Record

Permit

| | | | | | |
|---------------------------|-------------------------|---------------------------|---|---------------------------|-------------------------------------|
| Permit #: | NMR050013 | Permittee: | Triad National Security LLC | Facility: | LOS ALAMOS NATIONAL LABORATORY |
| Major: | No | Permittee Address: | PO Box 1663 Los Alamos, NM 87545 | Facility Location: | PO BOX 1663 LOS ALAMOS, NM 87545 |
| Permitted Feature: | 039 External Outfall | Discharge: | 039-P1 Railroad, Local Highway Passenger Motor Freight USPS: Indicator Monitoring: (ph,TSS,COD) | | |

Report Dates & Status

| | | | | | |
|---------------------------|----------------------------------|----------------------|-----------------|----------------|-------------------------|
| Monitoring Period: | From 01/01/22 to 03/31/22 | DMR Due Date: | 05/31/22 | Status: | NetDMR Validated |
|---------------------------|----------------------------------|----------------------|-----------------|----------------|-------------------------|

Considerations for Form Completion

Principal Executive Officer

| | | | | | |
|--------------------|--|---------------|--|-------------------|--|
| First Name: | | Title: | | Telephone: | |
| Last Name: | | | | | |

No Data Indicator (NODI)

Form NODI: --

| Code | Parameter | | Monitoring Location | Season # | Param. NODI | Quantity or Loading | | | | | Quality or Concentration | | | | | # of Ex. | Frequency of Analysis | Sample Type | | | |
|-------|------------------------------|--|---------------------|----------|-------------|---------------------|---------|-------------|---------|-------|--------------------------|---------|-------------|---------|-------------|----------|-----------------------|-------------|---------|-------|--|
| | Name | | | | | Qualifier 1 | Value 1 | Qualifier 2 | Value 2 | Units | Qualifier 1 | Value 1 | Qualifier 2 | Value 2 | Qualifier 3 | | | | Value 3 | Units | |
| 00400 | pH | | 1 - Effluent Gross | 0 | -- | Sample | | | | | | | | | | | | | | | |
| | | | | | | Permit Req. | | | | | | | | | | | | | | | |
| | | | | | | Value NODI | | | | | | | | | | | | | | | |
| 00530 | Solids, total suspended | | 1 - Effluent Gross | 0 | -- | Sample | | | | | | | | | | | | | | | |
| | | | | | | Permit Req. | | | | | | | | | | | | | | | |
| | | | | | | Value NODI | | | | | | | | | | | | | | | |
| 81017 | Chemical Oxygen Demand [COD] | | 1 - Effluent Gross | 0 | -- | Sample | | | | | | | | | | | | | | | |
| | | | | | | Permit Req. | | | | | | | | | | | | | | | |
| | | | | | | Value NODI | | | | | | | | | | | | | | | |

Submission Note

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

Edit Check Errors

No errors.

Comments

LA-UR-22-23400

Attachments

No attachments.

Report Last Saved By

Triad National Security LLC

| | |
|------------|--------------------------------------|
| User: | leslie@lanl.gov |
| Name: | Leslie Dale |
| E-Mail: | leslie@lanl.gov |
| Date/Time: | 2022-04-21 12:20 (Time Zone: -05:00) |

Report Last Signed By

| | |
|------------|--------------------------------------|
| User: | TERRILLEMKE |
| Name: | Terrill Lemke |
| E-Mail: | tlemke@lanl.gov |
| Date/Time: | 2022-04-21 13:41 (Time Zone: -05:00) |

DMR Copy of Record

Permit

| | | | | | |
|---------------------------|-------------------------|---------------------------|---|---------------------------|-------------------------------------|
| Permit #: | NMR050013 | Permittee: | Triad National Security LLC | Facility: | LOS ALAMOS NATIONAL LABORATORY |
| Major: | No | Permittee Address: | PO Box 1663 Los Alamos, NM 87545 | Facility Location: | PO BOX 1663 LOS ALAMOS, NM 87545 |
| Permitted Feature: | 042 External Outfall | Discharge: | 042-P1 Railroad, Local Highway Passenger Motor Freight USPS: Indicator Monitoring: (ph,TSS,COD) | | |

Report Dates & Status

| | | | | | |
|---------------------------|----------------------------------|----------------------|-----------------|----------------|-------------------------|
| Monitoring Period: | From 01/01/22 to 03/31/22 | DMR Due Date: | 05/31/22 | Status: | NetDMR Validated |
|---------------------------|----------------------------------|----------------------|-----------------|----------------|-------------------------|

Considerations for Form Completion

Principal Executive Officer

| | | | | | |
|--------------------|--|---------------|--|-------------------|--|
| First Name: | | Title: | | Telephone: | |
| Last Name: | | | | | |

No Data Indicator (NODI)

Form NODI: --

| Parameter | | Monitoring Location | Season # | Param. NODI | | Quantity or Loading | | | | | Quality or Concentration | | | | | # of Ex. | Frequency of Analysis | Sample Type | | |
|-----------|------------------------------|---------------------|----------|-------------|-------------|---------------------|---------|-------------|---------|-------|--------------------------|---------|-------------|---------|-------------|----------|-----------------------|-------------------|-----------|-------|
| Code | Name | | | | | Qualifier 1 | Value 1 | Qualifier 2 | Value 2 | Units | Qualifier 1 | Value 1 | Qualifier 2 | Value 2 | Qualifier 3 | | | | Value 3 | Units |
| 00400 | pH | 1 - Effluent Gross | 0 | -- | Sample | | | | | | | | | | | | | 01/90 - Quarterly | GR - GRAB | |
| | | | | | Permit Req. | | | | | | | | | | | | | | | |
| | | | | | Value NODI | | | | | | | | | | | | | | | |
| 00530 | Solids, total suspended | 1 - Effluent Gross | 0 | -- | Sample | | | | | | | | | | | | | 01/90 - Quarterly | GR - GRAB | |
| | | | | | Permit Req. | | | | | | | | | | | | | | | |
| | | | | | Value NODI | | | | | | | | | | | | | | | |
| 81017 | Chemical Oxygen Demand [COD] | 1 - Effluent Gross | 0 | -- | Sample | | | | | | | | | | | | | 01/90 - Quarterly | GR - GRAB | |
| | | | | | Permit Req. | | | | | | | | | | | | | | | |
| | | | | | Value NODI | | | | | | | | | | | | | | | |

Submission Note

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

Edit Check Errors

No errors.

Comments

LA-UR-22-23400

Attachments

No attachments.

Report Last Saved By

Triad National Security LLC
 User: leslie@lanl.gov
 Name: Leslie Dale
 E-Mail: leslie@lanl.gov
 Date/Time: 2022-04-21 12:20 (Time Zone: -05:00)

Report Last Signed By

User: TERRILLEMKE
 Name: Terrill Lemke
 E-Mail: tlemke@lanl.gov
 Date/Time: 2022-04-21 13:41 (Time Zone: -05:00)

DMR Copy of Record

Permit

| | | | | | |
|---------------------------|-------------------------|---------------------------|-------------------------------------|---------------------------|-------------------------------------|
| Permit #: | NMR050013 | Permittee: | Triad National Security LLC | Facility: | LOS ALAMOS NATIONAL LABORATORY |
| Major: | No | Permittee Address: | PO Box 1663 Los Alamos, NM 87545 | Facility Location: | PO BOX 1663 LOS ALAMOS, NM 87545 |
| Permitted Feature: | 031 External Outfall | Discharge: | 031-IW Impaired Water | | |

Report Dates & Status

| | | | | | |
|---------------------------|----------------------------------|----------------------|-----------------|----------------|-------------------------|
| Monitoring Period: | From 07/01/21 to 06/30/22 | DMR Due Date: | 08/31/22 | Status: | NetDMR Validated |
|---------------------------|----------------------------------|----------------------|-----------------|----------------|-------------------------|

Considerations for Form Completion

Principal Executive Officer

| | | | | | |
|--------------------|--|---------------|--|-------------------|--|
| First Name: | | Title: | | Telephone: | |
| Last Name: | | | | | |

No Data Indicator (NODI)

| | |
|-------------------|----|
| Form NODI: | -- |
|-------------------|----|

| Code | Parameter Name | Monitoring Location | Season # | Param. NODI | Quantity or Loading | | | | | Quality or Concentration | | | | | # of Ex. | Frequency of Analysis | Sample Type | | | | | |
|---------|----------------------------------|---------------------|----------|-------------|---------------------|---------|-------------|---------|-------|--------------------------|---------|-------------|---------|-------------|----------|-----------------------|-------------|-----------------|-----------------|----------------|----------------|-----------|
| | | | | | Qualifier 1 | Value 1 | Qualifier 2 | Value 2 | Units | Qualifier 1 | Value 1 | Qualifier 2 | Value 2 | Qualifier 3 | | | | Value 3 | Units | | | |
| 01040 | Copper, dissolved [as Cu] | 1 - Effluent Gross | 0 | -- | Sample | | | | | | | | | | 6.01 | 28 - ug/L | 0 | 01/YR - Annual | GR - GRAB | | | |
| | | | | | Permit Req. | | | | | | | | | | | | | Req Mon MAXIMUM | 28 - ug/L | 01/YR - Annual | GR - GRAB | |
| | | | | | Value NODI | | | | | | | | | | | | | | | | | |
| X 39516 | Polychlorinated biphenyls [PCBs] | 1 - Effluent Gross | 0 | -- | Sample | | | | | | | | | | < | 0.0412 | 28 - ug/L | 0 | 01/YR - Annual | GR - GRAB | | |
| | | | | | Permit Req. | | | | | | | | | | | | | | Req Mon MAXIMUM | 19 - mg/L | 01/YR - Annual | GR - GRAB |
| | | | | | Value NODI | | | | | | | | | | | | | | | | | |
| 51931 | Alpha, gross adjusted | 1 - Effluent Gross | 0 | -- | Sample | | | | | | | | | | | 2.14 | 17 - pCi/L | 0 | 01/YR - Annual | GR - GRAB | | |
| | | | | | Permit Req. | | | | | | | | | | | | | | Req Mon MAXIMUM | 17 - pCi/L | 01/YR - Annual | GR - GRAB |
| | | | | | Value NODI | | | | | | | | | | | | | | | | | |
| X 71900 | Mercury, total [as Hg] | 1 - Effluent Gross | 0 | -- | Sample | | | | | | | | | | | < | 0.067 | 28 - ug/L | 0 | 01/YR - Annual | GR - GRAB | |
| | | | | | Permit Req. | | | | | | | | | | | | | Req Mon MAXIMUM | | 19 - mg/L | 01/YR - Annual | GR - GRAB |
| | | | | | Value NODI | | | | | | | | | | | | | | | | | |

Submission Note

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

Edit Check Errors

| Code | Parameter Name | Monitoring Location | Field | Type | Description | Acknowledge |
|-------|----------------------------------|---------------------|-------|------|--|-------------|
| 39516 | Polychlorinated biphenyls [PCBs] | 1 - Effluent Gross | Units | Soft | You have selected units that are different from the units established by your Regulatory Authority. Please contact your Regulatory Authority to discuss the selection of any alternative units. | Yes |
| 71900 | Mercury, total [as Hg] | 1 - Effluent Gross | Units | Soft | You have selected units that are different from the units established by your Regulatory Authority. Please contact your Regulatory Authority to discuss the selection of any alternative units. | Yes |

Comments

LA-UR-22-28977. Total aroclors and Hg were not detected therefore monitoring will be discontinued until permit year 4 (Part 4.2.5.1.a).

Attachments

No attachments.

Report Last Saved By

Triad National Security LLC

User: leslie@lanl.gov
 Name: Leslie Dale
 E-Mail: leslie@lanl.gov
 Date/Time: 2022-08-30 06:00 (Time Zone: -05:00)

Report Last Signed By

User: TERRILLEMKE
 Name: Terrill Lemke
 E-Mail: tlemke@lanl.gov
 Date/Time: 2022-08-31 13:42 (Time Zone: -05:00)

DMR Copy of Record

Permit

| | | | | | |
|---------------------------|-------------------------|---------------------------|-------------------------------------|---------------------------|-------------------------------------|
| Permit #: | NMR050013 | Permittee: | Triad National Security LLC | Facility: | LOS ALAMOS NATIONAL LABORATORY |
| Major: | No | Permittee Address: | PO Box 1663 Los Alamos, NM 87545 | Facility Location: | PO BOX 1663 LOS ALAMOS, NM 87545 |
| Permitted Feature: | 032 External Outfall | Discharge: | 032-IW Impaired Water | | |

Report Dates & Status

| | | | | | |
|---------------------------|----------------------------------|----------------------|-----------------|----------------|-------------------------|
| Monitoring Period: | From 07/01/21 to 06/30/22 | DMR Due Date: | 08/31/22 | Status: | NetDMR Validated |
|---------------------------|----------------------------------|----------------------|-----------------|----------------|-------------------------|

Considerations for Form Completion

Principal Executive Officer

| | | | | | |
|--------------------|--|---------------|--|-------------------|--|
| First Name: | | Title: | | Telephone: | |
| Last Name: | | | | | |

No Data Indicator (NODI)

Form NODI: --

| Code | Parameter Name | Monitoring Location | Season # | Param. NODI | | Quantity or Loading | | | Quality or Concentration | | | # of Ex. | Frequency of Analysis | Sample Type | | | | | | | |
|---------|----------------------------------|---------------------|----------|-------------|-------------|---------------------|---------|-------------|--------------------------|-------|-------------|----------|-----------------------|-------------|-----------|-------------|----------------|-----------------|-----------|----------------|-----------|
| | | | | | | Qualifier 1 | Value 1 | Qualifier 2 | Value 2 | Units | Qualifier 1 | | | | Value 1 | Qualifier 2 | Value 2 | Qualifier 3 | Value 3 | Units | |
| 01040 | Copper, dissolved [as Cu] | 1 - Effluent Gross | 0 | -- | Sample | | | | | | | | | 6.71 | 28 - ug/L | 0 | 01/YR - Annual | GR - GRAB | | | |
| | | | | | Permit Req. | | | | | | | | | | | | | Req Mon MAXIMUM | 28 - ug/L | 01/YR - Annual | GR - GRAB |
| | | | | | Value NODI | | | | | | | | | | | | | | | | |
| 01104 | Aluminum, total recoverable | 1 - Effluent Gross | 0 | -- | Sample | | | | | | | | | 498.0 | 28 - ug/L | 0 | 01/YR - Annual | GR - GRAB | | | |
| | | | | | Permit Req. | | | | | | | | | | | | | Req Mon MAXIMUM | 28 - ug/L | 01/YR - Annual | GR - GRAB |
| | | | | | Value NODI | | | | | | | | | | | | | | | | |
| X 39516 | Polychlorinated biphenyls [PCBs] | 1 - Effluent Gross | 0 | -- | Sample | | | | | | | | | < | 0.0333 | 28 - ug/L | 0 | 01/YR - Annual | GR - GRAB | | |
| | | | | | Permit Req. | | | | | | | | | | | | | Req Mon MAXIMUM | 19 - mg/L | 01/YR - Annual | GR - GRAB |
| | | | | | Value NODI | | | | | | | | | | | | | | | | |

Submission Note

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

Edit Check Errors

| Code | Parameter Name | Monitoring Location | Field | Type | Description | Acknowledge |
|-------|----------------------------------|---------------------|-------|------|--|-------------|
| 39516 | Polychlorinated biphenyls [PCBs] | 1 - Effluent Gross | Units | Soft | You have selected units that are different from the units established by your Regulatory Authority. Please contact your Regulatory Authority to discuss the selection of any alternative units. | Yes |

Comments

LA-UR-22-28977. Total aroclors were not detected therefore monitoring will be discontinued until permit year 4 (Part 4.2.5.1.a).

Attachments

No attachments.

Report Last Saved By

Triad National Security LLC

User: leslie@lanl.gov
 Name: Leslie Dale
 E-Mail: leslie@lanl.gov
 Date/Time: 2022-08-30 06:00 (Time Zone: -05:00)

Report Last Signed By

User: TERRILLEMKE
 Name: Terrill Lemke
 E-Mail: tlemke@lanl.gov
 Date/Time: 2022-08-31 13:42 (Time Zone: -05:00)

DMR Copy of Record

Permit

| | | | | | |
|---------------------------|-------------------------|---------------------------|-------------------------------------|---------------------------|-------------------------------------|
| Permit #: | NMR050013 | Permittee: | Triad National Security LLC | Facility: | LOS ALAMOS NATIONAL LABORATORY |
| Major: | No | Permittee Address: | PO Box 1663 Los Alamos, NM 87545 | Facility Location: | PO BOX 1663 LOS ALAMOS, NM 87545 |
| Permitted Feature: | 037 External Outfall | Discharge: | 037-IW Impaired Water | | |

Report Dates & Status

| | | | | | |
|---------------------------|----------------------------------|----------------------|-----------------|----------------|-------------------------|
| Monitoring Period: | From 07/01/21 to 06/30/22 | DMR Due Date: | 08/31/22 | Status: | NetDMR Validated |
|---------------------------|----------------------------------|----------------------|-----------------|----------------|-------------------------|

Considerations for Form Completion

Principal Executive Officer

| | | | | | |
|--------------------|--|---------------|--|-------------------|--|
| First Name: | | Title: | | Telephone: | |
| Last Name: | | | | | |

No Data Indicator (NODI)

Form NODI: --

| Code | Parameter Name | Monitoring Location | Season # | Param. NODI | Quantity or Loading | | | | | Quality or Concentration | | | | | # of Ex. | Frequency of Analysis | Sample Type | | | | |
|---------|----------------------------------|---------------------|----------|-------------|---------------------|---------|-------------|---------|-------|--------------------------|---------|-------------|---------|-------------|----------|-----------------------|-------------|----------------|----------------|----------------|-----------|
| | | | | | Qualifier 1 | Value 1 | Qualifier 2 | Value 2 | Units | Qualifier 1 | Value 1 | Qualifier 2 | Value 2 | Qualifier 3 | | | | Value 3 | Units | | |
| 01040 | Copper, dissolved [as Cu] | 1 - Effluent Gross | 0 | -- | Sample | | | | | | | | | | | 1.64 | 28 - ug/L | 0 | 01/YR - Annual | GR - GRAB | |
| | | | | | Permit Req. | | | | | | | | | | | Req Mon MAXIMUM | 28 - ug/L | | 01/YR - Annual | GR - GRAB | |
| | | | | | Value NODI | | | | | | | | | | | | | | | | |
| 01104 | Aluminum, total recoverable | 1 - Effluent Gross | 0 | -- | Sample | | | | | | | | | | | 2110.0 | 28 - ug/L | 0 | 01/YR - Annual | GR - GRAB | |
| | | | | | Permit Req. | | | | | | | | | | | Req Mon MAXIMUM | 28 - ug/L | | 01/YR - Annual | GR - GRAB | |
| | | | | | Value NODI | | | | | | | | | | | | | | | | |
| X 39516 | Polychlorinated biphenyls [PCBs] | 1 - Effluent Gross | 0 | -- | Sample | | | | | | | | | | | < | 0.0333 | 28 - ug/L | 0 | 01/YR - Annual | GR - GRAB |
| | | | | | Permit Req. | | | | | | | | | | | Req Mon MAXIMUM | 19 - mg/L | 01/YR - Annual | | GR - GRAB | |
| | | | | | Value NODI | | | | | | | | | | | | | | | | |

Submission Note

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

Edit Check Errors

| Code | Parameter Name | Monitoring Location | Field | Type | Description | Acknowledge |
|-------|----------------------------------|---------------------|-------|------|--|-------------|
| 39516 | Polychlorinated biphenyls [PCBs] | 1 - Effluent Gross | Units | Soft | You have selected units that are different from the units established by your Regulatory Authority. Please contact your Regulatory Authority to discuss the selection of any alternative units. | Yes |

Comments

LA-UR-22-28977. Total aroclors were not detected therefore monitoring will be discontinued until permit year 4 (Part 4.2.5.1.a).

Attachments

No attachments.

Report Last Saved By

Triad National Security LLC

User: leslie@lanl.gov
 Name: Leslie Dale
 E-Mail: leslie@lanl.gov
 Date/Time: 2022-08-30 06:00 (Time Zone: -05:00)

Report Last Signed By

User: TERRILLEMKE
 Name: Terrill Lemke
 E-Mail: tlemke@lanl.gov
 Date/Time: 2022-08-31 13:42 (Time Zone: -05:00)

DMR Copy of Record

Permit

| | | | | | |
|---------------------------|-------------------------|---------------------------|-------------------------------------|---------------------------|-------------------------------------|
| Permit #: | NMR050013 | Permittee: | Triad National Security LLC | Facility: | LOS ALAMOS NATIONAL LABORATORY |
| Major: | No | Permittee Address: | PO Box 1663 Los Alamos, NM 87545 | Facility Location: | PO BOX 1663 LOS ALAMOS, NM 87545 |
| Permitted Feature: | 039 External Outfall | Discharge: | 039-IW Impaired Water | | |

Report Dates & Status

| | | | | | |
|---------------------------|----------------------------------|----------------------|-----------------|----------------|-------------------------|
| Monitoring Period: | From 07/01/21 to 06/30/22 | DMR Due Date: | 08/31/22 | Status: | NetDMR Validated |
|---------------------------|----------------------------------|----------------------|-----------------|----------------|-------------------------|

Considerations for Form Completion

Principal Executive Officer

| | | |
|--------------------|---------------|-------------------|
| First Name: | Title: | Telephone: |
| Last Name: | | |

No Data Indicator (NODI)

Form NODI: --

| Code | Parameter Name | Monitoring Location | Season # | Param. NODI | | Quantity or Loading | | | | | Quality or Concentration | | | | | # of Ex. | Frequency of Analysis | Sample Type | | |
|---------|----------------------------------|---------------------|----------|-------------|-------------|---------------------|---------|-------------|---------|-------|--------------------------|---------|-------------|---------|-------------|-----------------|-----------------------|-------------|----------------|-----------|
| | | | | | | Qualifier 1 | Value 1 | Qualifier 2 | Value 2 | Units | Qualifier 1 | Value 1 | Qualifier 2 | Value 2 | Qualifier 3 | | | | Value 3 | Units |
| 01040 | Copper, dissolved [as Cu] | 1 - Effluent Gross | 0 | -- | Sample | | | | | | | | | | | 55.5 | 28 - ug/L | 0 | 01/YR - Annual | GR - GRAB |
| | | | | | Permit Req. | | | | | | | | | | | Req Mon MAXIMUM | 28 - ug/L | | 01/YR - Annual | GR - GRAB |
| | | | | | Value NODI | | | | | | | | | | | | | | | |
| 01104 | Aluminum, total recoverable | 1 - Effluent Gross | 0 | -- | Sample | | | | | | | | | | | 243000.0 | 28 - ug/L | 0 | 01/YR - Annual | GR - GRAB |
| | | | | | Permit Req. | | | | | | | | | | | Req Mon MAXIMUM | 28 - ug/L | | 01/YR - Annual | GR - GRAB |
| | | | | | Value NODI | | | | | | | | | | | | | | | |
| X 39516 | Polychlorinated biphenyls [PCBs] | 1 - Effluent Gross | 0 | -- | Sample | | | | | | | | | | | 0.836 | 28 - ug/L | 0 | 01/YR - Annual | GR - GRAB |
| | | | | | Permit Req. | | | | | | | | | | | Req Mon MAXIMUM | 19 - mg/L | | 01/YR - Annual | GR - GRAB |
| | | | | | Value NODI | | | | | | | | | | | | | | | |

Submission Note

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

Edit Check Errors

| Code | Parameter Name | Monitoring Location | Field | Type | Description | Acknowledge |
|-------|----------------------------------|---------------------|-------|------|--|-------------|
| 39516 | Polychlorinated biphenyls [PCBs] | 1 - Effluent Gross | Units | Soft | You have selected units that are different from the units established by your Regulatory Authority. Please contact your Regulatory Authority to discuss the selection of any alternative units. | Yes |

Comments

LA-UR-22-28977

Attachments

No attachments.

Report Last Saved By

Triad National Security LLC

User: leslie@lanl.gov
 Name: Leslie Dale
 E-Mail: leslie@lanl.gov
 Date/Time: 2022-08-30 06:00 (Time Zone: -05:00)

Report Last Signed By

User: TERRILLEMKE
 Name: Terrill Lemke
 E-Mail: tlemke@lanl.gov
 Date/Time: 2022-08-31 13:42 (Time Zone: -05:00)

DMR Copy of Record

Permit

| | | | | | |
|---------------------------|-------------------------|---------------------------|-------------------------------------|---------------------------|-------------------------------------|
| Permit #: | NMR050013 | Permittee: | Triad National Security LLC | Facility: | LOS ALAMOS NATIONAL LABORATORY |
| Major: | No | Permittee Address: | PO Box 1663 Los Alamos, NM 87545 | Facility Location: | PO BOX 1663 LOS ALAMOS, NM 87545 |
| Permitted Feature: | 042 External Outfall | Discharge: | 042-IW Impaired Water | | |

Report Dates & Status

| | | | | | |
|---------------------------|----------------------------------|----------------------|-----------------|----------------|-------------------------|
| Monitoring Period: | From 07/01/21 to 06/30/22 | DMR Due Date: | 08/31/22 | Status: | NetDMR Validated |
|---------------------------|----------------------------------|----------------------|-----------------|----------------|-------------------------|

Considerations for Form Completion

Principal Executive Officer

| | | | | | |
|--------------------|--|---------------|--|-------------------|--|
| First Name: | | Title: | | Telephone: | |
| Last Name: | | | | | |

No Data Indicator (NODI)

Form NODI: --

| Code | Parameter Name | Monitoring Location | Season # | Param. NODI | | Quantity or Loading | | | | | Quality or Concentration | | | | | # of Ex. | Frequency of Analysis | Sample Type | | | |
|---------|----------------------------------|---------------------|----------|-------------|-------------|---------------------|---------|-------------|---------|-------|--------------------------|---------|-------------|---------|-------------|-----------|-----------------------|-----------------|----------------|----------------|-----------|
| | | | | | | Qualifier 1 | Value 1 | Qualifier 2 | Value 2 | Units | Qualifier 1 | Value 1 | Qualifier 2 | Value 2 | Qualifier 3 | | | | Value 3 | Units | |
| 01040 | Copper, dissolved [as Cu] | 1 - Effluent Gross | 0 | -- | Sample | | | | | | | | | | 10.8 | 28 - ug/L | 0 | 01/YR - Annual | GR - GRAB | | |
| | | | | | Permit Req. | | | | | | | | | | | | | Req Mon MAXIMUM | 28 - ug/L | 01/YR - Annual | GR - GRAB |
| | | | | | Value NODI | | | | | | | | | | | | | | | | |
| 01104 | Aluminum, total recoverable | 1 - Effluent Gross | 0 | -- | Sample | | | | | | | | | | 2630.0 | 28 - ug/L | 0 | 01/YR - Annual | GR - GRAB | | |
| | | | | | Permit Req. | | | | | | | | | | | | | Req Mon MAXIMUM | 28 - ug/L | 01/YR - Annual | GR - GRAB |
| | | | | | Value NODI | | | | | | | | | | | | | | | | |
| X 39516 | Polychlorinated biphenyls [PCBs] | 1 - Effluent Gross | 0 | -- | Sample | | | | | | | | | | < | 0.0337 | 28 - ug/L | 0 | 01/YR - Annual | GR - GRAB | |
| | | | | | Permit Req. | | | | | | | | | | | | Req Mon MAXIMUM | | 19 - mg/L | 01/YR - Annual | GR - GRAB |
| | | | | | Value NODI | | | | | | | | | | | | | | | | |

Submission Note

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

Edit Check Errors

| Code | Parameter Name | Monitoring Location | Field | Type | Description | Acknowledge |
|-------|----------------------------------|---------------------|-------|------|--|-------------|
| 39516 | Polychlorinated biphenyls [PCBs] | 1 - Effluent Gross | Units | Soft | You have selected units that are different from the units established by your Regulatory Authority. Please contact your Regulatory Authority to discuss the selection of any alternative units. | Yes |

Comments

LA-UR-22-28977. Total aroclors were not detected therefore monitoring will be discontinued until permit year 4 (Part 4.2.5.1.a).

Attachments

No attachments.

Report Last Saved By

Triad National Security LLC

User: leslie@lanl.gov
 Name: Leslie Dale
 E-Mail: leslie@lanl.gov
 Date/Time: 2022-08-30 06:00 (Time Zone: -05:00)

Report Last Signed By

User: TERRILLEMKE
 Name: Terrill Lemke
 E-Mail: tlemke@lanl.gov
 Date/Time: 2022-08-31 13:42 (Time Zone: -05:00)

DMR Copy of Record

Permit

| | | | | | |
|---------------------------|-------------------------|---------------------------|---|---------------------------|-------------------------------------|
| Permit #: | NMR050013 | Permittee: | Triad National Security LLC | Facility: | LOS ALAMOS NATIONAL LABORATORY |
| Major: | No | Permittee Address: | PO Box 1663 Los Alamos, NM 87545 | Facility Location: | PO BOX 1663 LOS ALAMOS, NM 87545 |
| Permitted Feature: | 043 External Outfall | Discharge: | 043-1D Asphalt Paving and roofing Materials and Lubricant Manufacturing | | |

Report Dates & Status

| | | | | | |
|---------------------------|----------------------------------|----------------------|-----------------|----------------|-------------------------|
| Monitoring Period: | From 07/01/21 to 06/30/22 | DMR Due Date: | 08/31/22 | Status: | NetDMR Validated |
|---------------------------|----------------------------------|----------------------|-----------------|----------------|-------------------------|

Considerations for Form Completion

Principal Executive Officer

| | | | | | |
|--------------------|--|---------------|--|-------------------|--|
| First Name: | | Title: | | Telephone: | |
| Last Name: | | | | | |

No Data Indicator (NODI)

| | |
|-------------------|----|
| Form NODI: | -- |
|-------------------|----|

| Code | Parameter Name | Monitoring Location | Season # | Param. NODI | | Quantity or Loading | | | | | Quality or Concentration | | | | | # of Ex. | Frequency of Analysis | Sample Type | | |
|---------|-------------------------|---------------------|----------|-------------|-------------|---------------------|---------|-------------|---------|-------|--------------------------|---------------|-------------|---------|-------------|---------------|-----------------------|-------------|----------------|-----------|
| | | | | | | Qualifier 1 | Value 1 | Qualifier 2 | Value 2 | Units | Qualifier 1 | Value 1 | Qualifier 2 | Value 2 | Qualifier 3 | | | | Value 3 | Units |
| 00400 | pH | 1 - Effluent Gross | 0 | -- | Sample | | | | | | = | 7.68 | | | = | 7.68 | 12 - SU | 0 | 01/YR - Annual | GR - GRAB |
| | | | | | Permit Req. | | | | | | >= | 6.0 MINIMUM | | | <= | 9.0 MAXIMUM | 12 - SU | | | |
| | | | | | Value NODI | | | | | | | | | | | | | | | |
| X 00530 | Solids, total suspended | 1 - Effluent Gross | 0 | -- | Sample | | | | | | = | 70.3 | | | = | 70.3 | 19 - mg/L | 1 | 01/YR - Annual | GR - GRAB |
| | | | | | Permit Req. | | | | | | <= | 15.0 30DA AVG | | | <= | 23.0 DAILY MX | 19 - mg/L | | | |
| | | | | | Value NODI | | | | | | | | | | | | | | | |
| 00556 | Oil & Grease | 1 - Effluent Gross | 0 | -- | Sample | | | | | | = | 0.0 | | | = | 0.0 | 19 - mg/L | 0 | 01/YR - Annual | GR - GRAB |
| | | | | | Permit Req. | | | | | | <= | 10.0 30DA AVG | | | <= | 15.0 DAILY MX | 19 - mg/L | | | |
| | | | | | Value NODI | | | | | | | | | | | | | | | |

Submission Note

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

Edit Check Errors

| Code | Parameter Name | Monitoring Location | Field | Type | Description | Acknowledge |
|-------|-------------------------|---------------------|---|------|--|-------------|
| 00530 | Solids, total suspended | 1 - Effluent Gross | Quality or Concentration Sample Value 3 | Soft | The provided sample value is outside the permit limit. Please verify that the value you have provided is correct. | Yes |
| 00530 | Solids, total suspended | 1 - Effluent Gross | Quality or Concentration Sample Value 2 | Soft | The provided sample value is outside the permit limit. Please verify that the value you have provided is correct. | Yes |

Comments

LA-UR-22-28977. TSS exceeded the effluent limitation guideline daily max. Hg was not detected therefore monitoring will be discontinued until permit year 4 (Part 4.2.5.1.a).

Attachments

No attachments.

Report Last Saved By

Triad National Security LLC

| | |
|------------|--------------------------------------|
| User: | TERRILLEMKE |
| Name: | Terrill Lemke |
| E-Mail: | tlemke@lanl.gov |
| Date/Time: | 2022-08-31 16:57 (Time Zone: -05:00) |

Report Last Signed By

| | |
|------------|--------------------------------------|
| User: | TERRILLEMKE |
| Name: | Terrill Lemke |
| E-Mail: | tlemke@lanl.gov |
| Date/Time: | 2022-08-31 16:57 (Time Zone: -05:00) |

DMR Copy of Record

Permit

| | | | | | |
|---------------------------|-------------------------|---------------------------|-------------------------------------|---------------------------|-------------------------------------|
| Permit #: | NMR050013 | Permittee: | Triad National Security LLC | Facility: | LOS ALAMOS NATIONAL LABORATORY |
| Major: | No | Permittee Address: | PO Box 1663 Los Alamos, NM 87545 | Facility Location: | PO BOX 1663 LOS ALAMOS, NM 87545 |
| Permitted Feature: | 043 External Outfall | Discharge: | 043-IW Impaired Water | | |

Report Dates & Status

| | | | | | |
|---------------------------|----------------------------------|----------------------|-----------------|----------------|-------------------------|
| Monitoring Period: | From 07/01/21 to 06/30/22 | DMR Due Date: | 08/31/22 | Status: | NetDMR Validated |
|---------------------------|----------------------------------|----------------------|-----------------|----------------|-------------------------|

Considerations for Form Completion

Principal Executive Officer

| | | | | | |
|--------------------|--|---------------|--|-------------------|--|
| First Name: | | Title: | | Telephone: | |
| Last Name: | | | | | |

No Data Indicator (NODI)

Form NODI: --

| Code | Parameter Name | Monitoring Location | Season # | Param. NODI | | Quantity or Loading | | | | Quality or Concentration | | | | # of Ex. | Frequency of Analysis | Sample Type | | | | |
|---------|----------------------------------|---------------------|----------|-------------|-------------|---------------------|---------|-------------|---------|--------------------------|-------------|---------|-------------|----------|-----------------------|-----------------|-----------------|----------------|----------------|-----------|
| | | | | | | Qualifier 1 | Value 1 | Qualifier 2 | Value 2 | Units | Qualifier 1 | Value 1 | Qualifier 2 | | | | Value 2 | Qualifier 3 | Value 3 | Units |
| 01040 | Copper, dissolved [as Cu] | 1 - Effluent Gross | 0 | -- | Sample | | | | | | | | | 3.64 | 28 - ug/L | 0 | 01/YR - Annual | GR - GRAB | | |
| | | | | | Permit Req. | | | | | | | | | | | | Req Mon MAXIMUM | 28 - ug/L | 01/YR - Annual | GR - GRAB |
| | | | | | Value NODI | | | | | | | | | | | | | | | |
| X 39516 | Polychlorinated biphenyls [PCBs] | 1 - Effluent Gross | 0 | -- | Sample | | | | | | | | | 0.0756 | 28 - ug/L | 0 | 01/YR - Annual | GR - GRAB | | |
| | | | | | Permit Req. | | | | | | | | | | | | Req Mon MAXIMUM | 19 - mg/L | 01/YR - Annual | GR - GRAB |
| | | | | | Value NODI | | | | | | | | | | | | | | | |
| 51931 | Alpha, gross adjusted | 1 - Effluent Gross | 0 | -- | Sample | | | | | | | | | 2.14 | 17 - pCi/L | 0 | 01/YR - Annual | GR - GRAB | | |
| | | | | | Permit Req. | | | | | | | | | | | | Req Mon MAXIMUM | 17 - pCi/L | 01/YR - Annual | GR - GRAB |
| | | | | | Value NODI | | | | | | | | | | | | | | | |
| X 71900 | Mercury, total [as Hg] | 1 - Effluent Gross | 0 | -- | Sample | | | | | | | | | < | 0.067 | 28 - ug/L | 0 | 01/YR - Annual | GR - GRAB | |
| | | | | | Permit Req. | | | | | | | | | | | Req Mon MAXIMUM | | 19 - mg/L | 01/YR - Annual | GR - GRAB |
| | | | | | Value NODI | | | | | | | | | | | | | | | |

Submission Note

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

Edit Check Errors

| Code | Parameter Name | Monitoring Location | Field | Type | Description | Acknowledge |
|-------|----------------------------------|---------------------|-------|------|--|-------------|
| 39516 | Polychlorinated biphenyls [PCBs] | 1 - Effluent Gross | Units | Soft | You have selected units that are different from the units established by your Regulatory Authority. Please contact your Regulatory Authority to discuss the selection of any alternative units. | Yes |
| 71900 | Mercury, total [as Hg] | 1 - Effluent Gross | Units | Soft | You have selected units that are different from the units established by your Regulatory Authority. Please contact your Regulatory Authority to discuss the selection of any alternative units. | Yes |

Comments

LA-UR-22-28977. TSS exceeded the effluent limitation guideline daily max. Hg was not detected therefore monitoring will be discontinued until permit year 4 (Part 4.2.5.1.a).

Attachments

No attachments.

Report Last Saved By

Triad National Security LLC

User: leslie@lanl.gov
 Name: Leslie Dale
 E-Mail: leslie@lanl.gov
 Date/Time: 2022-08-30 06:00 (Time Zone: -05:00)

Report Last Signed By

User: TERRILLEMKE
 Name: Terrill Lemke
 E-Mail: tlemke@lanl.gov
 Date/Time: 2022-08-31 13:42 (Time Zone: -05:00)

DMR Copy of Record

Permit

| | | | | | |
|---------------------------|-------------------------|---------------------------|---|---------------------------|-------------------------------------|
| Permit #: | NMR050013 | Permittee: | Triad National Security LLC | Facility: | LOS ALAMOS NATIONAL LABORATORY |
| Major: | No | Permittee Address: | PO Box 1663 Los Alamos, NM 87545 | Facility Location: | PO BOX 1663 LOS ALAMOS, NM 87545 |
| Permitted Feature: | 043 External Outfall | Discharge: | 043-PX Indicator Monitoring for PAHs | | |

Report Dates & Status

| | | | | | |
|---------------------------|----------------------------------|----------------------|-----------------|----------------|-------------------------|
| Monitoring Period: | From 07/01/21 to 12/31/21 | DMR Due Date: | 02/28/22 | Status: | NetDMR Validated |
|---------------------------|----------------------------------|----------------------|-----------------|----------------|-------------------------|

Considerations for Form Completion

Principal Executive Officer

| | | |
|--------------------|---------------|-------------------|
| First Name: | Title: | Telephone: |
| Last Name: | | |

No Data Indicator (NODI)

Form NODI: --

| Code | Parameter Name | Monitoring Location | Season # | Param. NODI | | Quantity or Loading | | | | | Quality or Concentration | | | | | | # of Ex. | Frequency of Analysis | Sample Type | |
|-------|------------------------|---------------------|----------|-------------|-------------|---------------------|---------|-------------|---------|-------|--------------------------|---------|-------------|---------|-------------|-----------------|------------------|------------------------|------------------------|-----------|
| | | | | | | Qualifier 1 | Value 1 | Qualifier 2 | Value 2 | Units | Qualifier 1 | Value 1 | Qualifier 2 | Value 2 | Qualifier 3 | Value 3 | | | | Units |
| 34200 | Acenaphthylene | 1 - Effluent Gross | 0 | -- | Sample | | | | | | | | | | | | Req Mon MAXIMUM | 28 - ug/L | 02/YR - Twice Per Year | GR - GRAB |
| | | | | | Permit Req. | | | | | | | | | | | | | | | |
| | | | | | Value NODI | | | | | | | | | | | | C - No Discharge | | | |
| 34205 | Acenaphthene | 1 - Effluent Gross | 0 | -- | Sample | | | | | | | | | | | Req Mon MAXIMUM | 28 - ug/L | 02/YR - Twice Per Year | GR - GRAB | |
| | | | | | Permit Req. | | | | | | | | | | | | | | | |
| | | | | | Value NODI | | | | | | | | | | | | C - No Discharge | | | |
| 34220 | Anthracene | 1 - Effluent Gross | 0 | -- | Sample | | | | | | | | | | | Req Mon MAXIMUM | 28 - ug/L | 02/YR - Twice Per Year | GR - GRAB | |
| | | | | | Permit Req. | | | | | | | | | | | | | | | |
| | | | | | Value NODI | | | | | | | | | | | | C - No Discharge | | | |
| 34230 | Benzo[b]fluoranthene | 1 - Effluent Gross | 0 | -- | Sample | | | | | | | | | | | Req Mon MAXIMUM | 28 - ug/L | 02/YR - Twice Per Year | GR - GRAB | |
| | | | | | Permit Req. | | | | | | | | | | | | | | | |
| | | | | | Value NODI | | | | | | | | | | | | C - No Discharge | | | |
| 34242 | Benzo[k]fluoranthene | 1 - Effluent Gross | 0 | -- | Sample | | | | | | | | | | | Req Mon MAXIMUM | 28 - ug/L | 02/YR - Twice Per Year | GR - GRAB | |
| | | | | | Permit Req. | | | | | | | | | | | | | | | |
| | | | | | Value NODI | | | | | | | | | | | | C - No Discharge | | | |
| 34247 | Benzo[a]pyrene | 1 - Effluent Gross | 0 | -- | Sample | | | | | | | | | | | Req Mon MAXIMUM | 28 - ug/L | 02/YR - Twice Per Year | GR - GRAB | |
| | | | | | Permit Req. | | | | | | | | | | | | | | | |
| | | | | | Value NODI | | | | | | | | | | | | C - No Discharge | | | |
| 34320 | Chrysene | 1 - Effluent Gross | 0 | -- | Sample | | | | | | | | | | | Req Mon MAXIMUM | 28 - ug/L | 02/YR - Twice Per Year | GR - GRAB | |
| | | | | | Permit Req. | | | | | | | | | | | | | | | |
| | | | | | Value NODI | | | | | | | | | | | | C - No Discharge | | | |
| 34376 | Fluoranthene | 1 - Effluent Gross | 0 | -- | Sample | | | | | | | | | | | Req Mon MAXIMUM | 28 - ug/L | 02/YR - Twice Per Year | GR - GRAB | |
| | | | | | Permit Req. | | | | | | | | | | | | | | | |
| | | | | | Value NODI | | | | | | | | | | | | C - No Discharge | | | |
| 34381 | Fluorene | 1 - Effluent Gross | 0 | -- | Sample | | | | | | | | | | | Req Mon MAXIMUM | 28 - ug/L | 02/YR - Twice Per Year | GR - GRAB | |
| | | | | | Permit Req. | | | | | | | | | | | | | | | |
| | | | | | Value NODI | | | | | | | | | | | | C - No Discharge | | | |
| 34403 | Indeno[1,2,3-cd]pyrene | 1 - Effluent Gross | 0 | -- | Sample | | | | | | | | | | | Req Mon MAXIMUM | 28 - ug/L | 02/YR - Twice Per Year | GR - GRAB | |
| | | | | | Permit Req. | | | | | | | | | | | | | | | |
| | | | | | Value NODI | | | | | | | | | | | | C - No Discharge | | | |
| 34461 | Phenanthrene | 1 - Effluent Gross | 0 | -- | Sample | | | | | | | | | | | Req Mon MAXIMUM | 28 - ug/L | 02/YR - Twice Per Year | GR - GRAB | |
| | | | | | Permit Req. | | | | | | | | | | | | | | | |
| | | | | | Value NODI | | | | | | | | | | | | C - No Discharge | | | |
| 34469 | Pyrene | 1 - Effluent Gross | 0 | -- | Sample | | | | | | | | | | | Req Mon MAXIMUM | 28 - ug/L | 02/YR - Twice Per Year | GR - GRAB | |
| | | | | | Permit Req. | | | | | | | | | | | | | | | |
| | | | | | Value NODI | | | | | | | | | | | | C - No Discharge | | | |
| 34521 | Benzo[ghi]perylene | 1 - Effluent Gross | 0 | -- | Sample | | | | | | | | | | | Req Mon MAXIMUM | 28 - ug/L | 02/YR - Twice Per Year | GR - GRAB | |
| | | | | | Permit Req. | | | | | | | | | | | | | | | |
| | | | | | Value NODI | | | | | | | | | | | | C - No Discharge | | | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------|------------------------------|--------------------|---|----|-------------|--|--|--|--|--|--|--|--|--|--|--|--|--|-----------------|-----------|--|------------------------|-----------|--|--|--|
| 34526 | Benzo[a]anthracene | 1 - Effluent Gross | 0 | -- | Sample | | | | | | | | | | | | | | Req Mon MAXIMUM | 28 - ug/L | | 02/YR - Twice Per Year | GR - GRAB | | | |
| | | | | | Permit Req. | | | | | | | | | | | | | | | | | C - No Discharge | | | | |
| | | | | | Value NODI | | | | | | | | | | | | | | | | | | | | | |
| 34556 | Dibenz[a,h]anthracene | 1 - Effluent Gross | 0 | -- | Sample | | | | | | | | | | | | | | Req Mon MAXIMUM | 28 - ug/L | | 02/YR - Twice Per Year | GR - GRAB | | | |
| | | | | | Permit Req. | | | | | | | | | | | | | | | | | C - No Discharge | | | | |
| | | | | | Value NODI | | | | | | | | | | | | | | | | | | | | | |
| 34696 | Naphthalene | 1 - Effluent Gross | 0 | -- | Sample | | | | | | | | | | | | | | Req Mon MAXIMUM | 28 - ug/L | | 02/YR - Twice Per Year | GR - GRAB | | | |
| | | | | | Permit Req. | | | | | | | | | | | | | | | | | C - No Discharge | | | | |
| | | | | | Value NODI | | | | | | | | | | | | | | | | | | | | | |

Submission Note

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

Edit Check Errors

No errors.

Comments

LA-UR-22-20564

Attachments

No attachments.

Report Last Saved By

Triad National Security LLC

User: leslie@lanl.gov
 Name: Leslie Dale
 E-Mail: leslie@lanl.gov
 Date/Time: 2022-01-24 16:40 (Time Zone: -06:00)

Report Last Signed By

User: TERRILLEMKE
 Name: Terrill Lemke
 E-Mail: tlemke@lanl.gov
 Date/Time: 2022-01-26 13:16 (Time Zone: -06:00)

DMR Copy of Record

Permit

| | | | | | |
|---------------------------|-------------------------|---------------------------|---|---------------------------|-------------------------------------|
| Permit #: | NMR050013 | Permittee: | Triad National Security LLC | Facility: | LOS ALAMOS NATIONAL LABORATORY |
| Major: | No | Permittee Address: | PO Box 1663 Los Alamos, NM 87545 | Facility Location: | PO BOX 1663 LOS ALAMOS, NM 87545 |
| Permitted Feature: | 043 External Outfall | Discharge: | 043-D1 Asphalt Paving and Roofing Materials and Lubricant Manufacturing | | |

Report Dates & Status

| | | | | | |
|---------------------------|----------------------------------|----------------------|-----------------|----------------|-------------------------|
| Monitoring Period: | From 10/01/21 to 12/31/21 | DMR Due Date: | 02/28/22 | Status: | NetDMR Validated |
|---------------------------|----------------------------------|----------------------|-----------------|----------------|-------------------------|

Considerations for Form Completion

Principal Executive Officer

| | | |
|--------------------|---------------|-------------------|
| First Name: | Title: | Telephone: |
| Last Name: | | |

No Data Indicator (NODI)

Form NODI: --

| Parameter | | Monitoring Location | Season # | Param. NODI | | Quantity or Loading | | | | | Quality or Concentration | | | | | # of Ex. | Frequency of Analysis | Sample Type | |
|-----------|--------------------------------|---------------------|----------|-------------|-------------|---------------------|---------|-------------|---------|-------|--------------------------|---------|-------------|---------|---------------|------------------|-----------------------|-------------------|-----------|
| Code | Name | | | | | Qualifier 1 | Value 1 | Qualifier 2 | Value 2 | Units | Qualifier 1 | Value 1 | Qualifier 2 | Value 2 | Qualifier 3 | | | | Value 3 |
| 00530 | Solids, total suspended | 1 - Effluent Gross | 0 | -- | Sample | | | | | | | | | | | | | | |
| | | | | | Permit Req. | | | | | | | | | <= | 100.0 MAXIMUM | 19 - mg/L | | 01/90 - Quarterly | GR - GRAB |
| | | | | | Value NODI | | | | | | | | | | | C - No Discharge | | | |

Submission Note

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

Edit Check Errors

No errors.

Comments

LA-UR-22-20563

Attachments

No attachments.

Report Last Saved By

Triad National Security LLC

User: leslie@lanl.gov
Name: Leslie Dale
E-Mail: leslie@lanl.gov
Date/Time: 2022-01-24 16:40 (Time Zone: -06:00)

Report Last Signed By

User: TERRILLEMKE
Name: Terrill Lemke
E-Mail: tlemke@lanl.gov
Date/Time: 2022-01-26 13:16 (Time Zone: -06:00)

DMR Copy of Record

Permit

| | | | | | |
|---------------------------|-------------------------|---------------------------|---|---------------------------|-------------------------------------|
| Permit #: | NMR050013 | Permittee: | Triad National Security LLC | Facility: | LOS ALAMOS NATIONAL LABORATORY |
| Major: | No | Permittee Address: | PO Box 1663 Los Alamos, NM 87545 | Facility Location: | PO BOX 1663 LOS ALAMOS, NM 87545 |
| Permitted Feature: | 043 External Outfall | Discharge: | 043-D1 Asphalt Paving and Roofing Materials and Lubricant Manufacturing | | |

Report Dates & Status

| | | | | | |
|---------------------------|----------------------------------|----------------------|-----------------|----------------|-------------------------|
| Monitoring Period: | From 01/01/22 to 03/31/22 | DMR Due Date: | 05/31/22 | Status: | NetDMR Validated |
|---------------------------|----------------------------------|----------------------|-----------------|----------------|-------------------------|

Considerations for Form Completion

Principal Executive Officer

| | | |
|--------------------|---------------|-------------------|
| First Name: | Title: | Telephone: |
| Last Name: | | |

No Data Indicator (NODI)

Form NODI: --

| Parameter | | Monitoring Location | Season # | Param. NODI | Quantity or Loading | | | | | Quality or Concentration | | | | | # of Ex. | Frequency of Analysis | Sample Type | |
|-----------|--------------------------------|---------------------|----------|-------------|---------------------|---------|-------------|---------|-------|--------------------------|---------|-------------|---------|-------------|----------|-----------------------|-------------|---------|
| Code | Name | | | | Qualifier 1 | Value 1 | Qualifier 2 | Value 2 | Units | Qualifier 1 | Value 1 | Qualifier 2 | Value 2 | Qualifier 3 | | | | Value 3 |
| 00530 | Solids, total suspended | 1 - Effluent Gross | 0 | -- | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |

Submission Note

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

Edit Check Errors

No errors.

Comments

LA-UR-22-23400

Attachments

No attachments.

Report Last Saved By

Triad National Security LLC

User: leslie@lanl.gov
 Name: Leslie Dale
 E-Mail: leslie@lanl.gov
 Date/Time: 2022-04-21 12:20 (Time Zone: -05:00)

Report Last Signed By

User: TERRILLEMKE
 Name: Terrill Lemke
 E-Mail: tlemke@lanl.gov
 Date/Time: 2022-04-21 13:41 (Time Zone: -05:00)

DMR Copy of Record

Permit

| | | |
|---|--|---|
| Permit #: NMR050013 | Permittee: Triad National Security LLC | Facility: LOS ALAMOS NATIONAL LABORATORY |
| Major: No | Permittee Address: PO Box 1663 Los Alamos, NM 87545 | Facility Location: PO BOX 1663 LOS ALAMOS, NM 87545 |
| Permitted Feature: 043 External Outfall | Discharge: 043-D1 Asphalt Paving and Roofing Materials and Lubricant Manufacturing | |

Report Dates & Status

| | | |
|---|-------------------------------|---------------------------------|
| Monitoring Period: From 04/01/22 to 06/30/22 | DMR Due Date: 08/31/22 | Status: NetDMR Validated |
|---|-------------------------------|---------------------------------|

Considerations for Form Completion

Principal Executive Officer

| | | |
|--------------------|---------------|-------------------|
| First Name: | Title: | Telephone: |
| Last Name: | | |

No Data Indicator (NODI)

Form NODI: --

| Parameter | | Monitoring Location | Season # | Param. NODI | Quantity or Loading | | | | | Quality or Concentration | | | | | # of Ex. | Frequency of Analysis | Sample Type | | |
|-----------|-------------------------|---------------------|----------|-------------|---------------------|---------|-------------|---------|-------|--------------------------|---------|-------------|---------|-------------|---------------|-----------------------|-------------------|-------------------|-----------|
| Code | Name | | | | Qualifier 1 | Value 1 | Qualifier 2 | Value 2 | Units | Qualifier 1 | Value 1 | Qualifier 2 | Value 2 | Qualifier 3 | | | | Value 3 | Units |
| 00530 | Solids, total suspended | 1 - Effluent Gross | 0 | -- | Sample | | | | | | | | | 70.3 | 19 - mg/L | 0 | 01/90 - Quarterly | GR - GRAB | |
| | | | | | Permit Req. | | | | | | | | | <= | 100.0 MAXIMUM | | 19 - mg/L | 01/90 - Quarterly | GR - GRAB |
| | | | | | Value NODI | | | | | | | | | | | | | | |

Submission Note

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

Edit Check Errors

No errors.

Comments

LA-UR-22-28974

Attachments

No attachments.

Report Last Saved By

Triad National Security LLC

| | |
|------------|--------------------------------------|
| User: | leslie@lanl.gov |
| Name: | Leslie Dale |
| E-Mail: | leslie@lanl.gov |
| Date/Time: | 2022-08-30 06:00 (Time Zone: -05:00) |

Report Last Signed By

| | |
|------------|--------------------------------------|
| User: | TERRILLEMKE |
| Name: | Terrill Lemke |
| E-Mail: | tlemke@lanl.gov |
| Date/Time: | 2022-08-31 13:42 (Time Zone: -05:00) |

DMR Copy of Record

Permit

| | | | | | |
|---------------------------|-------------------------|---------------------------|---|---------------------------|-------------------------------------|
| Permit #: | NMR050013 | Permittee: | Triad National Security LLC | Facility: | LOS ALAMOS NATIONAL LABORATORY |
| Major: | No | Permittee Address: | PO Box 1663 Los Alamos, NM 87545 | Facility Location: | PO BOX 1663 LOS ALAMOS, NM 87545 |
| Permitted Feature: | 043 External Outfall | Discharge: | 043-D1 Asphalt Paving and Roofing Materials and Lubricant Manufacturing | | |

Report Dates & Status

| | | | | | |
|---------------------------|----------------------------------|----------------------|-----------------|----------------|-------------------------|
| Monitoring Period: | From 07/01/22 to 09/30/22 | DMR Due Date: | 11/30/22 | Status: | NetDMR Validated |
|---------------------------|----------------------------------|----------------------|-----------------|----------------|-------------------------|

Considerations for Form Completion

Principal Executive Officer

| | | |
|--------------------|---------------|-------------------|
| First Name: | Title: | Telephone: |
| Last Name: | | |

No Data Indicator (NODI)

Form NODI: --

| Parameter | | Monitoring Location | Season # | Param. NODI | | Quantity or Loading | | | | | Quality or Concentration | | | | | # of Ex. | Frequency of Analysis | Sample Type | | | |
|-----------|--------------------------------|---------------------|----------|-------------|-------------|---------------------|---------|-------------|---------|-------|--------------------------|---------|-------------|---------|-------------|-----------|-----------------------|-------------------|-----------|-------------------|-----------|
| Code | Name | | | | | Qualifier 1 | Value 1 | Qualifier 2 | Value 2 | Units | Qualifier 1 | Value 1 | Qualifier 2 | Value 2 | Qualifier 3 | | | | Value 3 | Units | |
| 00530 | Solids, total suspended | 1 - Effluent Gross | 0 | -- | Sample | | | | | | | | | | 16.9 | 19 - mg/L | 0 | 01/90 - Quarterly | GR - GRAB | | |
| | | | | | Permit Req. | | | | | | | | | | | <= | | 100.0 MAXIMUM | 19 - mg/L | 01/90 - Quarterly | GR - GRAB |
| | | | | | Value NODI | | | | | | | | | | | | | | | | |

Submission Note

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

Edit Check Errors

No errors.

Comments

LA-UR-22-32029

Attachments

No attachments.

Report Last Saved By

Triad National Security LLC

| | |
|------------|--------------------------------------|
| User: | leslie@lanl.gov |
| Name: | Leslie Dale |
| E-Mail: | leslie@lanl.gov |
| Date/Time: | 2022-11-15 16:10 (Time Zone: -06:00) |

Report Last Signed By

| | |
|------------|--------------------------------------|
| User: | TERRILLEMKE |
| Name: | Terrill Lemke |
| E-Mail: | tlemke@lanl.gov |
| Date/Time: | 2022-11-17 15:36 (Time Zone: -06:00) |

DMR Copy of Record

Permit

| | | | | | |
|---------------------------|-------------------------|---------------------------|---|---------------------------|-------------------------------------|
| Permit #: | NMR050013 | Permittee: | Triad National Security LLC | Facility: | LOS ALAMOS NATIONAL LABORATORY |
| Major: | No | Permittee Address: | PO Box 1663 Los Alamos, NM 87545 | Facility Location: | PO BOX 1663 LOS ALAMOS, NM 87545 |
| Permitted Feature: | 043 External Outfall | Discharge: | 043-3Q Quarterly ELG Follow-Up Monitoring | | |

Report Dates & Status

| | | | | | |
|---------------------------|----------------------------------|----------------------|-----------------|----------------|-------------------------|
| Monitoring Period: | From 09/01/22 to 11/30/22 | DMR Due Date: | 01/31/23 | Status: | NetDMR Validated |
|---------------------------|----------------------------------|----------------------|-----------------|----------------|-------------------------|

Considerations for Form Completion

Principal Executive Officer

| | | | | | |
|--------------------|--|---------------|--|-------------------|--|
| First Name: | | Title: | | Telephone: | |
| Last Name: | | | | | |

No Data Indicator (NODI)

Form NODI: --

| Parameter | | Monitoring Location | Season # | Param. NODI | Quantity or Loading | | | | | Quality or Concentration | | | | | # of Ex. | Frequency of Analysis | Sample Type | | | |
|-----------|--------------------------------|---------------------|----------|-------------|---------------------|---------|-------------|---------|-------|--------------------------|---------|-------------|------------------|-------------|------------------|-----------------------|-------------|--|-------------------|-----------|
| Code | Name | | | | Qualifier 1 | Value 1 | Qualifier 2 | Value 2 | Units | Qualifier 1 | Value 1 | Qualifier 2 | Value 2 | Qualifier 3 | Value 3 | Units | | | | |
| 00530 | Solids, total suspended | 1 - Effluent Gross | 0 | -- | | | | | | | | | | | | | | | | |
| | | | | | Sample | | | | | | | | | | | | | | | |
| | | | | | Permit Req. | | | | | | | <= | 15.0 30DA AVG | <= | 23.0 DAILY MX | 19 - mg/L | | | 01/90 - Quarterly | GR - GRAB |
| | | | | | Value NODI | | | | | | | | C - No Discharge | | C - No Discharge | | | | | |

Submission Note

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

Edit Check Errors

No errors.

Comments

LA-UR-22-32729

Attachments

No attachments.

Report Last Saved By

Triad National Security LLC

User: leslie@lanl.gov
 Name: Leslie Dale
 E-Mail: leslie@lanl.gov
 Date/Time: 2022-12-08 08:57 (Time Zone: -06:00)

Report Last Signed By

User: TERRILLEMKE
 Name: Terrill Lemke
 E-Mail: tlemke@lanl.gov
 Date/Time: 2022-12-14 18:40 (Time Zone: -06:00)

DMR Copy of Record

Permit

| | | | | | |
|---------------------------|-------------------------|---------------------------|---|---------------------------|-------------------------------------|
| Permit #: | NMR050013 | Permittee: | Triad National Security LLC | Facility: | LOS ALAMOS NATIONAL LABORATORY |
| Major: | No | Permittee Address: | PO Box 1663 Los Alamos, NM 87545 | Facility Location: | PO BOX 1663 LOS ALAMOS, NM 87545 |
| Permitted Feature: | 031 External Outfall | Discharge: | 031-P1 Railroad, Local Highway Passenger Motor Freight USPS: Indicator Monitoring: (ph,TSS,COD) | | |

Report Dates & Status

| | | | | | |
|---------------------------|----------------------------------|----------------------|-----------------|----------------|-------------------------|
| Monitoring Period: | From 07/01/21 to 09/30/21 | DMR Due Date: | 11/30/21 | Status: | NetDMR Validated |
|---------------------------|----------------------------------|----------------------|-----------------|----------------|-------------------------|

Considerations for Form Completion

Principal Executive Officer

| | | |
|--------------------|---------------|-------------------|
| First Name: | Title: | Telephone: |
| Last Name: | | |

No Data Indicator (NODI)

Form NODI: --

| Parameter | | Monitoring Location | Season # | Param. NODI | | Quantity or Loading | | | | | Quality or Concentration | | | | | # of Ex. | Frequency of Analysis | Sample Type | | | | | | | | |
|-----------|------------------------------|---------------------|----------|-------------|-------------|---------------------|---------|-------------|---------|-------|--------------------------|---------|-------------|---------|-------------|----------|-----------------------|-------------|---------|-------------------|-----------|--|--|--|-------------------|-----------|
| Code | Name | | | | | Qualifier 1 | Value 1 | Qualifier 2 | Value 2 | Units | Qualifier 1 | Value 1 | Qualifier 2 | Value 2 | Qualifier 3 | | | | Value 3 | Units | | | | | | |
| 00400 | pH | 1 - Effluent Gross | 0 | -- | Sample | | | | | | | | 8.39 | | | | 8.39 | 12 - SU | 0 | 01/90 - Quarterly | GR - GRAB | | | | | |
| | | | | | Permit Req. | | | | | | | | | | | | | | | | | | | | 01/90 - Quarterly | GR - GRAB |
| | | | | | Value NODI | | | | | | | | | | | | | | | | | | | | | |
| 00530 | Solids, total suspended | 1 - Effluent Gross | 0 | -- | Sample | | | | | | | | | | | | 260.0 | 19 - mg/L | 0 | 01/90 - Quarterly | GR - GRAB | | | | | |
| | | | | | Permit Req. | | | | | | | | | | | | | | | | | | | | 01/90 - Quarterly | GR - GRAB |
| | | | | | Value NODI | | | | | | | | | | | | | | | | | | | | | |
| 81017 | Chemical Oxygen Demand [COD] | 1 - Effluent Gross | 0 | -- | Sample | | | | | | | | | | | | 85.9 | 19 - mg/L | 0 | 01/90 - Quarterly | GR - GRAB | | | | | |
| | | | | | Permit Req. | | | | | | | | | | | | | | | | | | | | 01/90 - Quarterly | GR - GRAB |
| | | | | | Value NODI | | | | | | | | | | | | | | | | | | | | | |

Submission Note

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

Edit Check Errors

No errors.

Comments

LA-UR-21-31445

Attachments

No attachments.

Report Last Saved By

Triad National Security LLC

| | |
|------------|--------------------------------------|
| User: | leslie@lanl.gov |
| Name: | Leslie Dale |
| E-Mail: | leslie@lanl.gov |
| Date/Time: | 2021-11-18 10:30 (Time Zone: -06:00) |

Report Last Signed By

| | |
|------------|--------------------------------------|
| User: | TERRILLEMKE |
| Name: | Terrill Lemke |
| E-Mail: | tlemke@lanl.gov |
| Date/Time: | 2021-11-18 11:18 (Time Zone: -06:00) |

DMR Copy of Record

Permit

| | | | | | |
|---------------------------|-------------------------|---------------------------|---|---------------------------|-------------------------------------|
| Permit #: | NMR050013 | Permittee: | Triad National Security LLC | Facility: | LOS ALAMOS NATIONAL LABORATORY |
| Major: | No | Permittee Address: | PO Box 1663 Los Alamos, NM 87545 | Facility Location: | PO BOX 1663 LOS ALAMOS, NM 87545 |
| Permitted Feature: | 032 External Outfall | Discharge: | 032-P1 Railroad, Local Highway Passenger Motor Freight USPS: Indicator Monitoring: (ph,TSS,COD) | | |

Report Dates & Status

| | | | | | |
|---------------------------|----------------------------------|----------------------|-----------------|----------------|-------------------------|
| Monitoring Period: | From 07/01/21 to 09/30/21 | DMR Due Date: | 11/30/21 | Status: | NetDMR Validated |
|---------------------------|----------------------------------|----------------------|-----------------|----------------|-------------------------|

Considerations for Form Completion

Principal Executive Officer

| | | |
|--------------------|---------------|-------------------|
| First Name: | Title: | Telephone: |
| Last Name: | | |

No Data Indicator (NODI)

Form NODI: --

| Parameter | | Monitoring Location | Season # | Param. NODI | | Quantity or Loading | | | | | Quality or Concentration | | | | | # of Ex. | Frequency of Analysis | Sample Type | | |
|-----------|------------------------------|---------------------|----------|-------------|-------------|---------------------|---------|-------------|---------|-------|--------------------------|-----------------|-------------|---------|-----------------|-----------------|-----------------------|-------------------|-------------------|-----------|
| Code | Name | | | | | Qualifier 1 | Value 1 | Qualifier 2 | Value 2 | Units | Qualifier 1 | Value 1 | Qualifier 2 | Value 2 | Qualifier 3 | | | | Value 3 | Units |
| 00400 | pH | 1 - Effluent Gross | 0 | -- | Sample | | | | | | | 8.01 | | | | 8.01 | 12 - SU | 0 | 01/90 - Quarterly | GR - GRAB |
| | | | | | Permit Req. | | | | | | | Req Mon MINIMUM | | | | Req Mon MAXIMUM | 12 - SU | | 01/90 - Quarterly | GR - GRAB |
| | | | | | Value NODI | | | | | | | | | | | | | | | |
| 00530 | Solids, total suspended | 1 - Effluent Gross | 0 | -- | Sample | | | | | | | | | | 16.9 | 19 - mg/L | 0 | 01/90 - Quarterly | GR - GRAB | |
| | | | | | Permit Req. | | | | | | | | | | Req Mon MAXIMUM | 19 - mg/L | | 01/90 - Quarterly | GR - GRAB | |
| | | | | | Value NODI | | | | | | | | | | | | | | | |
| 81017 | Chemical Oxygen Demand [COD] | 1 - Effluent Gross | 0 | -- | Sample | | | | | | | | | | 85.9 | 19 - mg/L | 0 | 01/90 - Quarterly | GR - GRAB | |
| | | | | | Permit Req. | | | | | | | | | | Req Mon MAXIMUM | 19 - mg/L | | 01/90 - Quarterly | GR - GRAB | |
| | | | | | Value NODI | | | | | | | | | | | | | | | |

Submission Note

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

Edit Check Errors

No errors.

Comments

LA-UR-21-31445

Attachments

No attachments.

Report Last Saved By

Triad National Security LLC

User: leslie@lanl.gov
 Name: Leslie Dale
 E-Mail: leslie@lanl.gov
 Date/Time: 2021-11-18 10:30 (Time Zone: -06:00)

Report Last Signed By

User: TERRILLEMKE
 Name: Terrill Lemke
 E-Mail: tlemke@lanl.gov
 Date/Time: 2021-11-18 11:18 (Time Zone: -06:00)

DMR Copy of Record

Permit

| | | | | | |
|---------------------------|-------------------------|---------------------------|---|---------------------------|-------------------------------------|
| Permit #: | NMR050013 | Permittee: | Triad National Security LLC | Facility: | LOS ALAMOS NATIONAL LABORATORY |
| Major: | No | Permittee Address: | PO Box 1663 Los Alamos, NM 87545 | Facility Location: | PO BOX 1663 LOS ALAMOS, NM 87545 |
| Permitted Feature: | 042 External Outfall | Discharge: | 042-P1 Railroad, Local Highway Passenger Motor Freight USPS: Indicator Monitoring: (ph,TSS,COD) | | |

Report Dates & Status

| | | | | | |
|---------------------------|----------------------------------|----------------------|-----------------|----------------|-------------------------|
| Monitoring Period: | From 07/01/21 to 09/30/21 | DMR Due Date: | 11/30/21 | Status: | NetDMR Validated |
|---------------------------|----------------------------------|----------------------|-----------------|----------------|-------------------------|

Considerations for Form Completion

Principal Executive Officer

| | | |
|--------------------|---------------|-------------------|
| First Name: | Title: | Telephone: |
| Last Name: | | |

No Data Indicator (NODI)

Form NODI: --

| Parameter | | Monitoring Location | Season # | Param. NODI | | Quantity or Loading | | | | | Quality or Concentration | | | | | # of Ex. | Frequency of Analysis | Sample Type | | | | |
|-----------|------------------------------|---------------------|----------|-------------|-------------|---------------------|---------|-------------|---------|-------|--------------------------|-----------------|-------------|---------|-----------------|-----------------|-----------------------|-------------------|-------------------|-------------------|-------------------|-----------|
| Code | Name | | | | | Qualifier 1 | Value 1 | Qualifier 2 | Value 2 | Units | Qualifier 1 | Value 1 | Qualifier 2 | Value 2 | Qualifier 3 | | | | Value 3 | Units | | |
| 00400 | pH | 1 - Effluent Gross | 0 | -- | Sample | | | | | | | 7.02 | | | | 7.02 | 12 - SU | 0 | 01/90 - Quarterly | GR - GRAB | | |
| | | | | | Permit Req. | | | | | | | Req Mon MINIMUM | | | | Req Mon MAXIMUM | 12 - SU | | | | 01/90 - Quarterly | GR - GRAB |
| | | | | | Value NODI | | | | | | | | | | | | | | | | | |
| 00530 | Solids, total suspended | 1 - Effluent Gross | 0 | -- | Sample | | | | | | | | | | 2120.0 | 19 - mg/L | 0 | 01/90 - Quarterly | GR - GRAB | | | |
| | | | | | Permit Req. | | | | | | | | | | Req Mon MAXIMUM | 19 - mg/L | | | | 01/90 - Quarterly | GR - GRAB | |
| | | | | | Value NODI | | | | | | | | | | | | | | | | | |
| 81017 | Chemical Oxygen Demand [COD] | 1 - Effluent Gross | 0 | -- | Sample | | | | | | | | | | 32.2 | 19 - mg/L | 0 | 01/90 - Quarterly | GR - GRAB | | | |
| | | | | | Permit Req. | | | | | | | | | | Req Mon MAXIMUM | 19 - mg/L | | | | 01/90 - Quarterly | GR - GRAB | |
| | | | | | Value NODI | | | | | | | | | | | | | | | | | |

Submission Note

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

Edit Check Errors

No errors.

Comments

LA-UR-21-31445

Attachments

No attachments.

Report Last Saved By

Triad National Security LLC

User: leslie@lanl.gov
 Name: Leslie Dale
 E-Mail: leslie@lanl.gov
 Date/Time: 2021-11-18 10:30 (Time Zone: -06:00)

Report Last Signed By

User: TERRILLEMKE
 Name: Terrill Lemke
 E-Mail: tlemke@lanl.gov
 Date/Time: 2021-11-18 11:18 (Time Zone: -06:00)

DMR Copy of Record

Permit

| | | | | | |
|---------------------------|-------------------------|---------------------------|---|---------------------------|-------------------------------------|
| Permit #: | NMR050013 | Permittee: | Triad National Security LLC | Facility: | LOS ALAMOS NATIONAL LABORATORY |
| Major: | No | Permittee Address: | PO Box 1663 Los Alamos, NM 87545 | Facility Location: | PO BOX 1663 LOS ALAMOS, NM 87545 |
| Permitted Feature: | 031 External Outfall | Discharge: | 031-P1 Railroad, Local Highway Passenger Motor Freight USPS: Indicator Monitoring: (ph,TSS,COD) | | |

Report Dates & Status

| | | | | | |
|---------------------------|----------------------------------|----------------------|-----------------|----------------|-------------------------|
| Monitoring Period: | From 10/01/21 to 12/31/21 | DMR Due Date: | 02/28/22 | Status: | NetDMR Validated |
|---------------------------|----------------------------------|----------------------|-----------------|----------------|-------------------------|

Considerations for Form Completion

Principal Executive Officer

| | | | | | |
|--------------------|--|---------------|--|-------------------|--|
| First Name: | | Title: | | Telephone: | |
| Last Name: | | | | | |

No Data Indicator (NODI)

Form NODI: --

| Parameter | | Monitoring Location | Season # | Param. NODI | | Quantity or Loading | | | | | Quality or Concentration | | | | | # of Ex. | Frequency of Analysis | Sample Type | |
|-----------|------------------------------|---------------------|----------|-------------|-------------|---------------------|---------|-------------|---------|-------|--------------------------|---------|-------------|---------|-------------|----------|-----------------------|-------------|---------|
| Code | Name | | | | | Qualifier 1 | Value 1 | Qualifier 2 | Value 2 | Units | Qualifier 1 | Value 1 | Qualifier 2 | Value 2 | Qualifier 3 | | | | Value 3 |
| 00400 | pH | 1 - Effluent Gross | 0 | -- | Sample | | | | | | | | | | | | | | |
| | | | | | Permit Req. | | | | | | | | | | | | | | |
| | | | | | Value NODI | | | | | | | | | | | | | | |
| 00530 | Solids, total suspended | 1 - Effluent Gross | 0 | -- | Sample | | | | | | | | | | | | | | |
| | | | | | Permit Req. | | | | | | | | | | | | | | |
| | | | | | Value NODI | | | | | | | | | | | | | | |
| 81017 | Chemical Oxygen Demand [COD] | 1 - Effluent Gross | 0 | -- | Sample | | | | | | | | | | | | | | |
| | | | | | Permit Req. | | | | | | | | | | | | | | |
| | | | | | Value NODI | | | | | | | | | | | | | | |

Submission Note

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

Edit Check Errors

No errors.

Comments

LA-UR-22-20563

Attachments

No attachments.

Report Last Saved By

Triad National Security LLC

User: leslie@lanl.gov
 Name: Leslie Dale
 E-Mail: leslie@lanl.gov
 Date/Time: 2022-01-24 16:40 (Time Zone: -06:00)

Report Last Signed By

User: TERRILLEMKE
 Name: Terrill Lemke
 E-Mail: tlemke@lanl.gov
 Date/Time: 2022-01-26 13:16 (Time Zone: -06:00)

DMR Copy of Record

Permit

| | | | | | |
|---------------------------|-------------------------|---------------------------|---|---------------------------|-------------------------------------|
| Permit #: | NMR050013 | Permittee: | Triad National Security LLC | Facility: | LOS ALAMOS NATIONAL LABORATORY |
| Major: | No | Permittee Address: | PO Box 1663 Los Alamos, NM 87545 | Facility Location: | PO BOX 1663 LOS ALAMOS, NM 87545 |
| Permitted Feature: | 032 External Outfall | Discharge: | 032-P1 Railroad, Local Highway Passenger Motor Freight USPS: Indicator Monitoring: (ph,TSS,COD) | | |

Report Dates & Status

| | | | | | |
|---------------------------|----------------------------------|----------------------|-----------------|----------------|-------------------------|
| Monitoring Period: | From 10/01/21 to 12/31/21 | DMR Due Date: | 02/28/22 | Status: | NetDMR Validated |
|---------------------------|----------------------------------|----------------------|-----------------|----------------|-------------------------|

Considerations for Form Completion

Principal Executive Officer

| | | |
|--------------------|---------------|-------------------|
| First Name: | Title: | Telephone: |
| Last Name: | | |

No Data Indicator (NODI)

Form NODI: --

| Parameter | | Monitoring Location | Season # | Param. NODI | | Quantity or Loading | | | | | Quality or Concentration | | | | | # of Ex. | Frequency of Analysis | Sample Type | |
|-----------|------------------------------|---------------------|----------|-------------|-------------|---------------------|---------|-------------|---------|-------|--------------------------|---------|-------------|---------|-------------|----------|-----------------------|-------------|---------|
| Code | Name | | | | | Qualifier 1 | Value 1 | Qualifier 2 | Value 2 | Units | Qualifier 1 | Value 1 | Qualifier 2 | Value 2 | Qualifier 3 | | | | Value 3 |
| 00400 | pH | 1 - Effluent Gross | 0 | -- | Sample | | | | | | | | | | | | | | |
| | | | | | Permit Req. | | | | | | | | | | | | | | |
| | | | | | Value NODI | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| 00530 | Solids, total suspended | 1 - Effluent Gross | 0 | -- | Sample | | | | | | | | | | | | | | |
| | | | | | Permit Req. | | | | | | | | | | | | | | |
| | | | | | Value NODI | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| 81017 | Chemical Oxygen Demand [COD] | 1 - Effluent Gross | 0 | -- | Sample | | | | | | | | | | | | | | |
| | | | | | Permit Req. | | | | | | | | | | | | | | |
| | | | | | Value NODI | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |

Submission Note

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

Edit Check Errors

No errors.

Comments

LA-UR-22-20563

Attachments

No attachments.

Report Last Saved By

Triad National Security LLC

User: leslie@lanl.gov
 Name: Leslie Dale
 E-Mail: leslie@lanl.gov
 Date/Time: 2022-01-24 16:40 (Time Zone: -06:00)

Report Last Signed By

User: TERRILLEMKE
 Name: Terrill Lemke
 E-Mail: tlemke@lanl.gov
 Date/Time: 2022-01-26 13:16 (Time Zone: -06:00)

DMR Copy of Record

Permit

| | | | | | |
|---------------------------|-------------------------|---------------------------|---|---------------------------|-------------------------------------|
| Permit #: | NMR050013 | Permittee: | Triad National Security LLC | Facility: | LOS ALAMOS NATIONAL LABORATORY |
| Major: | No | Permittee Address: | PO Box 1663 Los Alamos, NM 87545 | Facility Location: | PO BOX 1663 LOS ALAMOS, NM 87545 |
| Permitted Feature: | 037 External Outfall | Discharge: | 037-P1 Railroad, Local Highway Passenger Motor Freight USPS: Indicator Monitoring: (ph,TSS,COD) | | |

Report Dates & Status

| | | | | | |
|---------------------------|----------------------------------|----------------------|-----------------|----------------|-------------------------|
| Monitoring Period: | From 10/01/21 to 12/31/21 | DMR Due Date: | 02/28/22 | Status: | NetDMR Validated |
|---------------------------|----------------------------------|----------------------|-----------------|----------------|-------------------------|

Considerations for Form Completion

Principal Executive Officer

| | | | | | |
|--------------------|--|---------------|--|-------------------|--|
| First Name: | | Title: | | Telephone: | |
| Last Name: | | | | | |

No Data Indicator (NODI)

Form NODI: --

| Parameter | | Monitoring Location | Season # | Param. NODI | Sample | Quantity or Loading | | | | | Quality or Concentration | | | | | # of Ex. | Frequency of Analysis | Sample Type | | |
|-----------|-------------------------------------|---------------------|----------|-------------|-------------|---------------------|---------|-------------|---------|-------|--------------------------|---------|-------------|---------|-------------|----------|-----------------------|-------------|---------|-------|
| Code | Name | | | | | Qualifier 1 | Value 1 | Qualifier 2 | Value 2 | Units | Qualifier 1 | Value 1 | Qualifier 2 | Value 2 | Qualifier 3 | | | | Value 3 | Units |
| 00400 | pH | 1 - Effluent Gross | 0 | -- | Sample | | | | | | | | | | | | | | | |
| | | | | | Permit Req. | | | | | | | | | | | | | | | |
| | | | | | Value NODI | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| 00530 | Solids, total suspended | 1 - Effluent Gross | 0 | -- | Sample | | | | | | | | | | | | | | | |
| | | | | | Permit Req. | | | | | | | | | | | | | | | |
| | | | | | Value NODI | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |
| 81017 | Chemical Oxygen Demand [COD] | 1 - Effluent Gross | 0 | -- | Sample | | | | | | | | | | | | | | | |
| | | | | | Permit Req. | | | | | | | | | | | | | | | |
| | | | | | Value NODI | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | |

Submission Note

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

Edit Check Errors

No errors.

Comments

LA-UR-22-20563

Attachments

No attachments.

Report Last Saved By

Triad National Security LLC

| | |
|------------|--------------------------------------|
| User: | leslie@lanl.gov |
| Name: | Leslie Dale |
| E-Mail: | leslie@lanl.gov |
| Date/Time: | 2022-01-24 16:40 (Time Zone: -06:00) |

Report Last Signed By

| | |
|------------|--------------------------------------|
| User: | TERRILLEMKE |
| Name: | Terrill Lemke |
| E-Mail: | tlemke@lanl.gov |
| Date/Time: | 2022-01-26 13:16 (Time Zone: -06:00) |

DMR Copy of Record

Permit

| | | | | | |
|---------------------------|-------------------------|---------------------------|---|---------------------------|-------------------------------------|
| Permit #: | NMR050013 | Permittee: | Triad National Security LLC | Facility: | LOS ALAMOS NATIONAL LABORATORY |
| Major: | No | Permittee Address: | PO Box 1663 Los Alamos, NM 87545 | Facility Location: | PO BOX 1663 LOS ALAMOS, NM 87545 |
| Permitted Feature: | 039 External Outfall | Discharge: | 039-P1 Railroad, Local Highway Passenger Motor Freight USPS: Indicator Monitoring: (ph,TSS,COD) | | |

Report Dates & Status

| | | | | | |
|---------------------------|----------------------------------|----------------------|-----------------|----------------|-------------------------|
| Monitoring Period: | From 10/01/21 to 12/31/21 | DMR Due Date: | 02/28/22 | Status: | NetDMR Validated |
|---------------------------|----------------------------------|----------------------|-----------------|----------------|-------------------------|

Considerations for Form Completion

Principal Executive Officer

| | | |
|--------------------|---------------|-------------------|
| First Name: | Title: | Telephone: |
| Last Name: | | |

No Data Indicator (NODI)

Form NODI: --

| Parameter | | Monitoring Location | Season # | Param. NODI | | Quantity or Loading | | | | | Quality or Concentration | | | | | # of Ex. | Frequency of Analysis | Sample Type | |
|-----------|------------------------------|---------------------|----------|-------------|-------------|---------------------|---------|-------------|---------|-------|--------------------------|------------------|-------------|---------|------------------|-------------------|-----------------------|-------------|---------|
| Code | Name | | | | | Qualifier 1 | Value 1 | Qualifier 2 | Value 2 | Units | Qualifier 1 | Value 1 | Qualifier 2 | Value 2 | Qualifier 3 | | | | Value 3 |
| 00400 | pH | 1 - Effluent Gross | 0 | -- | Sample | | | | | | | | | | | | 01/90 - Quarterly | GR - GRAB | |
| | | | | | Permit Req. | | | | | | | Req Mon MINIMUM | | | | Req Mon MAXIMUM | | | 12 - SU |
| | | | | | Value NODI | | | | | | | C - No Discharge | | | | C - No Discharge | | | |
| 00530 | Solids, total suspended | 1 - Effluent Gross | 0 | -- | Sample | | | | | | | | | | | 01/90 - Quarterly | GR - GRAB | | |
| | | | | | Permit Req. | | | | | | | | | | Req Mon MAXIMUM | | | 19 - mg/L | |
| | | | | | Value NODI | | | | | | | | | | C - No Discharge | | | | |
| 81017 | Chemical Oxygen Demand [COD] | 1 - Effluent Gross | 0 | -- | Sample | | | | | | | | | | | 01/90 - Quarterly | GR - GRAB | | |
| | | | | | Permit Req. | | | | | | | | | | Req Mon MAXIMUM | | | 19 - mg/L | |
| | | | | | Value NODI | | | | | | | | | | C - No Discharge | | | | |

Submission Note

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

Edit Check Errors

No errors.

Comments

LA-UR-22-20563

Attachments

No attachments.

Report Last Saved By

Triad National Security LLC

| | |
|------------|--------------------------------------|
| User: | leslie@lanl.gov |
| Name: | Leslie Dale |
| E-Mail: | leslie@lanl.gov |
| Date/Time: | 2022-01-24 16:40 (Time Zone: -06:00) |

Report Last Signed By

| | |
|------------|--------------------------------------|
| User: | TERRILLEMKE |
| Name: | Terrill Lemke |
| E-Mail: | tlemke@lanl.gov |
| Date/Time: | 2022-01-26 13:16 (Time Zone: -06:00) |

DMR Copy of Record

Permit

| | | |
|---|---|---|
| Permit #: NMR050013 | Permittee: Triad National Security LLC | Facility: LOS ALAMOS NATIONAL LABORATORY |
| Major: No | Permittee Address: PO Box 1663 Los Alamos, NM 87545 | Facility Location: PO BOX 1663 LOS ALAMOS, NM 87545 |
| Permitted Feature: 042 External Outfall | Discharge: 042-P1 Railroad, Local Highway Passenger Motor Freight USPS: Indicator Monitoring: (ph,TSS,COD) | |

Report Dates & Status

| | | |
|---|-------------------------------|---------------------------------|
| Monitoring Period: From 10/01/21 to 12/31/21 | DMR Due Date: 02/28/22 | Status: NetDMR Validated |
|---|-------------------------------|---------------------------------|

Considerations for Form Completion

Principal Executive Officer

| | | |
|--------------------|---------------|-------------------|
| First Name: | Title: | Telephone: |
| Last Name: | | |

No Data Indicator (NODI)

Form NODI: --

| Code | Parameter Name | Monitoring Location | Season # | Param. NODI | Quantity or Loading | | | | | Quality or Concentration | | | | | # of Ex. | Frequency of Analysis | Sample Type | | |
|-------|------------------------------|---------------------|----------|-------------|---------------------|---------|-------------|---------|-------|--------------------------|------------------|-------------|---------|-------------|------------------|-----------------------|-------------------|------------------|-----------|
| | | | | | Qualifier 1 | Value 1 | Qualifier 2 | Value 2 | Units | Qualifier 1 | Value 1 | Qualifier 2 | Value 2 | Qualifier 3 | | | | Value 3 | Units |
| 00400 | pH | 1 - Effluent Gross | 0 | -- | Sample | | | | | | | | | | | | 01/90 - Quarterly | GR - GRAB | |
| | | | | | Permit Req. | | | | | | Req Mon MINIMUM | | | | Req Mon MAXIMUM | | | | 12 - SU |
| | | | | | Value NODI | | | | | | C - No Discharge | | | | C - No Discharge | | | | |
| 00530 | Solids, total suspended | 1 - Effluent Gross | 0 | -- | Sample | | | | | | | | | | | 01/90 - Quarterly | GR - GRAB | | |
| | | | | | Permit Req. | | | | | | | | | | | | | Req Mon MAXIMUM | 19 - mg/L |
| | | | | | Value NODI | | | | | | | | | | | | | C - No Discharge | |
| 81017 | Chemical Oxygen Demand [COD] | 1 - Effluent Gross | 0 | -- | Sample | | | | | | | | | | | 01/90 - Quarterly | GR - GRAB | | |
| | | | | | Permit Req. | | | | | | | | | | | | | Req Mon MAXIMUM | 19 - mg/L |
| | | | | | Value NODI | | | | | | | | | | | | | C - No Discharge | |

Submission Note

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

Edit Check Errors

No errors.

Comments

LA-UR-22-20563

Attachments

No attachments.

Report Last Saved By

Triad National Security LLC

User: leslie@lanl.gov
 Name: Leslie Dale
 E-Mail: leslie@lanl.gov
 Date/Time: 2022-01-24 16:40 (Time Zone: -06:00)

Report Last Signed By

User: TERRILLEMKE
 Name: Terrill Lemke
 E-Mail: tlemke@lanl.gov
 Date/Time: 2022-01-26 13:16 (Time Zone: -06:00)

DMR Copy of Record

Permit

| | | | | | |
|---------------------------|-------------------------|---------------------------|---|---------------------------|-------------------------------------|
| Permit #: | NMR050013 | Permittee: | Triad National Security LLC | Facility: | LOS ALAMOS NATIONAL LABORATORY |
| Major: | No | Permittee Address: | PO Box 1663 Los Alamos, NM 87545 | Facility Location: | PO BOX 1663 LOS ALAMOS, NM 87545 |
| Permitted Feature: | 043 External Outfall | Discharge: | 043-PX Indicator Monitoring for PAHs | | |

Report Dates & Status

| | | | | | |
|---------------------------|----------------------------------|----------------------|-----------------|----------------|-------------------------|
| Monitoring Period: | From 07/01/21 to 12/31/21 | DMR Due Date: | 02/28/22 | Status: | NetDMR Validated |
|---------------------------|----------------------------------|----------------------|-----------------|----------------|-------------------------|

Considerations for Form Completion

Principal Executive Officer

| | | |
|--------------------|---------------|-------------------|
| First Name: | Title: | Telephone: |
| Last Name: | | |

No Data Indicator (NODI)

| | |
|-------------------|----|
| Form NODI: | -- |
|-------------------|----|

| Code | Parameter Name | Monitoring Location | Season # | Param. NODI | | Quantity or Loading | | | | | Quality or Concentration | | | | | # of Ex. | Frequency of Analysis | Sample Type | | |
|-------|------------------------|---------------------|----------|-------------|-------------|---------------------|---------|-------------|---------|-------|--------------------------|---------|-------------|---------|-------------|-----------------|-----------------------|------------------------|------------------------|-----------|
| | | | | | | Qualifier 1 | Value 1 | Qualifier 2 | Value 2 | Units | Qualifier 1 | Value 1 | Qualifier 2 | Value 2 | Qualifier 3 | | | | Value 3 | Units |
| 34200 | Acenaphthylene | 1 - Effluent Gross | 0 | -- | Sample | | | | | | | | | | | | Req Mon MAXIMUM | 28 - ug/L | 02/YR - Twice Per Year | GR - GRAB |
| | | | | | Permit Req. | | | | | | | | | | | | | | | |
| | | | | | Value NODI | | | | | | | | | | | | C - No Discharge | | | |
| 34205 | Acenaphthene | 1 - Effluent Gross | 0 | -- | Sample | | | | | | | | | | | Req Mon MAXIMUM | 28 - ug/L | 02/YR - Twice Per Year | GR - GRAB | |
| | | | | | Permit Req. | | | | | | | | | | | | | | | |
| | | | | | Value NODI | | | | | | | | | | | | C - No Discharge | | | |
| 34220 | Anthracene | 1 - Effluent Gross | 0 | -- | Sample | | | | | | | | | | | Req Mon MAXIMUM | 28 - ug/L | 02/YR - Twice Per Year | GR - GRAB | |
| | | | | | Permit Req. | | | | | | | | | | | | | | | |
| | | | | | Value NODI | | | | | | | | | | | | C - No Discharge | | | |
| 34230 | Benzo[b]fluoranthene | 1 - Effluent Gross | 0 | -- | Sample | | | | | | | | | | | Req Mon MAXIMUM | 28 - ug/L | 02/YR - Twice Per Year | GR - GRAB | |
| | | | | | Permit Req. | | | | | | | | | | | | | | | |
| | | | | | Value NODI | | | | | | | | | | | | C - No Discharge | | | |
| 34242 | Benzo[k]fluoranthene | 1 - Effluent Gross | 0 | -- | Sample | | | | | | | | | | | Req Mon MAXIMUM | 28 - ug/L | 02/YR - Twice Per Year | GR - GRAB | |
| | | | | | Permit Req. | | | | | | | | | | | | | | | |
| | | | | | Value NODI | | | | | | | | | | | | C - No Discharge | | | |
| 34247 | Benzo[a]pyrene | 1 - Effluent Gross | 0 | -- | Sample | | | | | | | | | | | Req Mon MAXIMUM | 28 - ug/L | 02/YR - Twice Per Year | GR - GRAB | |
| | | | | | Permit Req. | | | | | | | | | | | | | | | |
| | | | | | Value NODI | | | | | | | | | | | | C - No Discharge | | | |
| 34320 | Chrysene | 1 - Effluent Gross | 0 | -- | Sample | | | | | | | | | | | Req Mon MAXIMUM | 28 - ug/L | 02/YR - Twice Per Year | GR - GRAB | |
| | | | | | Permit Req. | | | | | | | | | | | | | | | |
| | | | | | Value NODI | | | | | | | | | | | | C - No Discharge | | | |
| 34376 | Fluoranthene | 1 - Effluent Gross | 0 | -- | Sample | | | | | | | | | | | Req Mon MAXIMUM | 28 - ug/L | 02/YR - Twice Per Year | GR - GRAB | |
| | | | | | Permit Req. | | | | | | | | | | | | | | | |
| | | | | | Value NODI | | | | | | | | | | | | C - No Discharge | | | |
| 34381 | Fluorene | 1 - Effluent Gross | 0 | -- | Sample | | | | | | | | | | | Req Mon MAXIMUM | 28 - ug/L | 02/YR - Twice Per Year | GR - GRAB | |
| | | | | | Permit Req. | | | | | | | | | | | | | | | |
| | | | | | Value NODI | | | | | | | | | | | | C - No Discharge | | | |
| 34403 | Indeno[1,2,3-cd]pyrene | 1 - Effluent Gross | 0 | -- | Sample | | | | | | | | | | | Req Mon MAXIMUM | 28 - ug/L | 02/YR - Twice Per Year | GR - GRAB | |
| | | | | | Permit Req. | | | | | | | | | | | | | | | |
| | | | | | Value NODI | | | | | | | | | | | | C - No Discharge | | | |
| 34461 | Phenanthrene | 1 - Effluent Gross | 0 | -- | Sample | | | | | | | | | | | Req Mon MAXIMUM | 28 - ug/L | 02/YR - Twice Per Year | GR - GRAB | |
| | | | | | Permit Req. | | | | | | | | | | | | | | | |
| | | | | | Value NODI | | | | | | | | | | | | C - No Discharge | | | |
| 34469 | Pyrene | 1 - Effluent Gross | 0 | -- | Sample | | | | | | | | | | | Req Mon MAXIMUM | 28 - ug/L | 02/YR - Twice Per Year | GR - GRAB | |
| | | | | | Permit Req. | | | | | | | | | | | | | | | |
| | | | | | Value NODI | | | | | | | | | | | | C - No Discharge | | | |
| 34521 | Benzo[ghi]perylene | 1 - Effluent Gross | 0 | -- | Sample | | | | | | | | | | | Req Mon MAXIMUM | 28 - ug/L | 02/YR - Twice Per Year | GR - GRAB | |
| | | | | | Permit Req. | | | | | | | | | | | | | | | |
| | | | | | Value NODI | | | | | | | | | | | | C - No Discharge | | | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------|------------------------------|--------------------|---|----|-------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|-----------------|-----------|------------------|------------------------|-----------|--|--|--|
| 34526 | Benzo[a]anthracene | 1 - Effluent Gross | 0 | -- | Sample | | | | | | | | | | | | | | | Req Mon MAXIMUM | 28 - ug/L | | 02/YR - Twice Per Year | GR - GRAB | | | |
| | | | | | Permit Req. | | | | | | | | | | | | | | | | | | C - No Discharge | | | | |
| | | | | | Value NODI | | | | | | | | | | | | | | | | | | | | | | |
| 34556 | Dibenz[a,h]anthracene | 1 - Effluent Gross | 0 | -- | Sample | | | | | | | | | | | | | | | Req Mon MAXIMUM | 28 - ug/L | | 02/YR - Twice Per Year | GR - GRAB | | | |
| | | | | | Permit Req. | | | | | | | | | | | | | | | | | C - No Discharge | | | | | |
| | | | | | Value NODI | | | | | | | | | | | | | | | | | | | | | | |
| 34696 | Naphthalene | 1 - Effluent Gross | 0 | -- | Sample | | | | | | | | | | | | | | | Req Mon MAXIMUM | 28 - ug/L | | 02/YR - Twice Per Year | GR - GRAB | | | |
| | | | | | Permit Req. | | | | | | | | | | | | | | | | | C - No Discharge | | | | | |
| | | | | | Value NODI | | | | | | | | | | | | | | | | | | | | | | |

Submission Note

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

Edit Check Errors

No errors.

Comments

LA-UR-22-20564

Attachments

No attachments.

Report Last Saved By

Triad National Security LLC

User: leslie@lanl.gov
 Name: Leslie Dale
 E-Mail: leslie@lanl.gov
 Date/Time: 2022-01-24 16:40 (Time Zone: -06:00)

Report Last Signed By

User: TERRILLEMKE
 Name: Terrill Lemke
 E-Mail: tlemke@lanl.gov
 Date/Time: 2022-01-26 13:16 (Time Zone: -06:00)

DMR Copy of Record

Permit

| | | | | | |
|---------------------------|-------------------------|---------------------------|---|---------------------------|-------------------------------------|
| Permit #: | NMR050013 | Permittee: | Triad National Security LLC | Facility: | LOS ALAMOS NATIONAL LABORATORY |
| Major: | No | Permittee Address: | PO Box 1663 Los Alamos, NM 87545 | Facility Location: | PO BOX 1663 LOS ALAMOS, NM 87545 |
| Permitted Feature: | 043 External Outfall | Discharge: | 043-D1 Asphalt Paving and Roofing Materials and Lubricant Manufacturing | | |

Report Dates & Status

| | | | | | |
|---------------------------|----------------------------------|----------------------|-----------------|----------------|-------------------------|
| Monitoring Period: | From 10/01/21 to 12/31/21 | DMR Due Date: | 02/28/22 | Status: | NetDMR Validated |
|---------------------------|----------------------------------|----------------------|-----------------|----------------|-------------------------|

Considerations for Form Completion

Principal Executive Officer

| | | |
|--------------------|---------------|-------------------|
| First Name: | Title: | Telephone: |
| Last Name: | | |

No Data Indicator (NODI)

Form NODI: --

| Parameter | | Monitoring Location | Season # | Param. NODI | | Quantity or Loading | | | | | Quality or Concentration | | | | | # of Ex. | Frequency of Analysis | Sample Type | |
|-----------|--------------------------------|---------------------|----------|-------------|-------------|---------------------|---------|-------------|---------|-------|--------------------------|---------|-------------|---------|---------------|------------------|-----------------------|-------------------|-----------|
| Code | Name | | | | | Qualifier 1 | Value 1 | Qualifier 2 | Value 2 | Units | Qualifier 1 | Value 1 | Qualifier 2 | Value 2 | Qualifier 3 | | | | Value 3 |
| 00530 | Solids, total suspended | 1 - Effluent Gross | 0 | -- | Sample | | | | | | | | | | | | | | |
| | | | | | Permit Req. | | | | | | | | | <= | 100.0 MAXIMUM | 19 - mg/L | | 01/90 - Quarterly | GR - GRAB |
| | | | | | Value NODI | | | | | | | | | | | C - No Discharge | | | |

Submission Note

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

Edit Check Errors

No errors.

Comments

LA-UR-22-20563

Attachments

No attachments.

Report Last Saved By

Triad National Security LLC

User: leslie@lanl.gov
 Name: Leslie Dale
 E-Mail: leslie@lanl.gov
 Date/Time: 2022-01-24 16:40 (Time Zone: -06:00)

Report Last Signed By

User: TERRILLEMKE
 Name: Terrill Lemke
 E-Mail: tlemke@lanl.gov
 Date/Time: 2022-01-26 13:16 (Time Zone: -06:00)

ATTACHMENT 6: ANNUAL REPORTS



Permit Information

Report Year: 2022

Reporting Period: 01/01/2022 to 12/31/2022

NPDES ID: NMR050013

Facility Information

Facility Name: LOS ALAMOS NATIONAL LABORATORY

Facility Point of Contact

First Name Middle Initial Last Name: Terrill . Lemke

Phone: 505-665-2397

Ext.:

Email: tleemke@lanl.gov

Facility Mailing Address

Address Line 1: PO BOX 1663

Address Line 2: MS K490

City: LOS ALAMOS

ZIP/Postal Code: 87545

State: NM

County or Similar Division: Los Alamos

General Findings

Provide a summary of your past year's routine facility inspection documentation, including dates (see Part 3.1.6 of the permit). In addition, if you are an operator of an airport facility (Sector S) that is subject to the airport effluent limitations guidelines, and are complying with the MSGP Part 8.5.9 effluent limitation through the use of non-urea-containing deicers, provide a statement certifying that you do not use pavement deicers containing urea (e.g., "Urea was not used at [name of airport] for pavement deicing in the past year and will also not be used in 2021." (Note: Operators of airport facilities that are complying with Part 8.5.9 by meeting the numeric effluent limitation for ammonia do not need to include this statement.)

Los Alamos National Laboratory (LANL), operated by Triad National Security, LLC (Triad), consists of 8 active industrial sites that operate under 4 different Sectors (D, N, P, and AA). Permit coverage became effective on June 25, 2021. All 8 active sites were inspected according to the schedules identified in the site-specific Stormwater Pollution Prevention Plans (SWPPPs). The 39 sites that qualify for a conditional exclusion for no exposure were inspected between November 17 and December 13, 2022. A summary of routine facility inspections, other walkdowns, and associated corrective actions are included in Table 1 (attached).

Provide a summary of your past year's quarterly visual assessment documentation, including dates (see Part 3.2.3 of the permit).

Please see Table 2 (attached) for a summary of visual assessment documentation. Outfalls reporting fewer than four visual assessments means no discharge occurred during one or more quarters.

Provide a summary of your past year's corrective action and/or additional implementation measures (AIM) documentation (See Part 5.3 of the permit). (Note: If corrective action is not yet completed at the time of submission of this annual report, you must describe the status of any outstanding corrective action(s).) Note that you must modify your SWPPP based on the corrective actions and deadlines required under Part 5. Also describe any incidents of noncompliance in the past year or currently ongoing, or if none, provide a statement that you are in compliance with the permit.

Please see Table 1 (attached) for a summary of corrective action documentation, which specifies the frequency of each of the following by site: (1) unauthorized release or discharge, (2) control measures needing maintenance, repair or replacement, (3) control measures that were inadequate to meet the non-numeric effluent limitations, (4) effluent limitation guidelines exceedances, and (5) benchmark exceedances (AIM triggering events). All corrective actions were completed per the schedule provided in Part 5.1.3. LANL is in compliance with the permit.

Attached files:

| Name | Uploaded Date | Size |
|---|---------------|-----------|
| 2022 Annual Report Tables 1 and 2.pdf (arptAttachment/826643) | 01/25/2023 | 138.04 KB |

Certification Information

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I have no personal knowledge that the information submitted is other than true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Certified By: Jennifer payne

Certifier Title: Division Leader

Certifier Email: jpayne@lanl.gov

Certified On: 01/25/2023 6:21 PM ET

2022 MSGP Annual Report

Table 1. Summary of Routine Facility, Other Walkdowns and Associated Corrective Actions

| Facility | Status | Required/ Recommended Inspection Frequency | Routine Facility Inspections and Other Walkdowns Conducted Between 1/1/2022 and 12/31/2022 | Inspection Dates | Unauthorized Release or Discharge | Control Measures Needing Maintenance, Repairs, or Replacement or Installed Incorrectly | Control Measures Inadequate to Meet Non- Numeric Effluent Limitations | Incidents of Noncompliance (Effluent Limitation Guidelines Exceedances) | Average Exceeds or is Mathematically Certain to Exceed Benchmark Value (AIM Triggering Event) | AIM Level at end of Reporting Period |
|---|-------------|---|--|---|---|---|---|--|---|--|
| TA-03-0029 Indoor TSD | No Exposure | Annually | 1 | 11/28/22 | — | — | — | — | — | — |
| TA-03-0029 Machine Shop | No Exposure | Annually | 1 | 11/28/22 | — | — | — | — | — | — |
| TA-03-0030 Warehouse | No Exposure | Annually | 6 | 4/20/22, 6/7/22, 7/12/22, 9/21/22, 12/1/22, 12/6/22 | 5 | — | — | — | — | — |
| TA-03-0032 Metal Shop | No Exposure | Annually | 1 | 11/28/22 | — | — | — | — | — | — |
| TA-03-0034 Metal Shop | No Exposure | Annually | 1 | 11/28/22 | — | — | — | — | — | — |
| TA-03-0038 Metal Fabrication Shops | Active | Monthly | 13 | 1/31/22, 2/14/22, 3/29/22, 4/21/22, 5/19/22, 6/13/22, 7/14/22, 8/25/22, 9/20/22, 10/19/22, 11/17/22, 12/13/22, 12/14/22 | — | 1 | 8 | — | 3 | Zn - Baseline until Year 4, NO3+NO2-N - AIM Level 1, AI - AIM Level 2 |
| TA-03-0039 & 0102 Metal Shop | No Exposure | Annually | 5 | 4/18/22, 6/27/22, 7/19/22, 11/22/22, 11/28/22 | 2 | — | 5 | — | — | — |
| TA-03-0040, Room 131S Machine Shop | No Exposure | Annually | 2 | 3/28/22, 11/28/22 | — | — | 1 | — | — | — |
| TA-03-0066 Sigma Complex | No Exposure | Annually | 4 | 6/21/22, 9/30/22, 11/28/22, 12/5/22 | 1 | 2 | 9 | — | — | — |
| TA-03-2206 Warehouse | No Exposure | Annually | 1 | 11/28/22 | — | — | — | — | — | — |
| TA-09-0028 Heavy Equipment Maintenance | No Exposure | Annually | 2 | 4/20/22, 11/17/22 | 1 | — | 1 | — | — | — |
| TA-09-0214 Metal Fabrication Shop | Active | Monthly | 12 | 1/4/22, 2/28/22, 3/24/22, 4/21/22, 5/9/22, 6/7/22, 7/28/22, 8/25/22, 9/28/22, 10/25/22, 11/30/22, 12/20/22 | 1 | — | 1 | — | — | Baseline |
| TA-14-0023 OBOD TSD (Burn Cage) | No Exposure | Annually | 1 | 11/17/22 | — | — | — | — | — | — |
| TA-15-0185 (PHERMEX) | No Exposure | Annually | 1 | 11/17/22 | — | — | — | — | — | — |

2022 MSGP Annual Report

| Facility | Status | Required/ Recommended Inspection Frequency | Routine Facility Inspections and Other Walkdowns Conducted Between 1/1/2022 and 12/31/2022 | Inspection Dates | Unauthorized Release or Discharge | Control Measures Needing Maintenance, Repairs, or Replacement or Installed Incorrectly | Control Measures Inadequate to Meet Non- Numeric Effluent Limitations | Incidents of Noncompliance (Effluent Limitation Guidelines Exceedances) | Average Exceeds or is Mathematically Certain to Exceed Benchmark Value (AIM Triggering Event) | AIM Level at end of Reporting Period |
|---|-------------|---|--|---------------------------------------|---|---|---|--|---|---|
| TA-15-0313 Machine Shop | No Exposure | Annually | 1 | 11/17/22 | 1 | — | 1 | — | — | — |
| TA-16 Stockpile Area | Active | Quarterly | 4 | 2/28/22, 4/21/22, 9/6/22, 12/20/22 | — | — | 1 | — | — | N/A |
| TA-22-0052 Machine Shop | No Exposure | Annually | 1 | 11/17/22 | — | 1 | — | — | — | — |
| TA-33-0039 Machine Shop | No Exposure | Annually | 1 | 11/29/22 | — | — | — | — | — | — |
| TA-33-0113 Machine Shop | No Exposure | Annually | 1 | 11/29/22 | — | — | 1 | — | — | — |
| TA-35-0002 Machine Shop | No Exposure | Annually | 1 | 11/29/22 | — | — | — | — | — | — |
| TA-35-0125 Machine Shop | No Exposure | Annually | 1 | 11/29/22 | — | — | — | — | — | — |
| TA-35-0213 Target Fabrication Facility | No Exposure | Annually | 1 | 11/29/22 | — | — | 4 | — | — | — |
| TA-46-0031 Machine Shop | No Exposure | Annually | 1 | 11/28/22 | — | — | — | — | — | — |
| TA-46-0077 Machine Shop | No Exposure | Annually | 4 | 6/28/22, 8/9/22, 9/12/22, 11/28/22 | — | — | 3 | — | — | — |
| TA-46-0624 Warehouse | No Exposure | Annually | 1 | 11/28/22 | — | — | — | — | — | — |
| TA-48-0008 Machine Shop | No Exposure | Annually | 1 | 11/29/22 | — | — | 1 | — | — | — |
| TA-50-0054 Machine Shop | No Exposure | Annually | 1 | 11/29/22 | — | — | — | — | — | — |
| TA-50-0069 WCRRF | No Exposure | Annually | 1 | 11/28/22 | — | — | — | — | — | — |
| TA-53-0002 Machine Shop | No Exposure | Annually | 2 | 12/8/22, 12/14/22 | — | 1 | — | — | — | — |
| TA-53-0016/0726 Machine Shop | No Exposure | Annually | 1 | 12/13/22 | — | — | — | — | — | — |
| TA-53-0026 Machine Shop | No Exposure | Annually | 1 | 12/13/22 | — | — | 1 | — | — | — |
| TA-54-0038 Indoor TSD | No Exposure | Annually | 1 | 11/28/22 | — | — | — | — | — | — |
| TA-54-0038 Outdoor TSD | No Exposure | Annually | 1 | 11/28/22 | — | — | — | — | — | — |
| TA-55 PF-0004 Indoor TSD | No Exposure | Annually | 1 | 11/30/22 | — | — | — | — | — | — |
| TA-55-0005 Warehouse | No Exposure | Annually | 1 | 11/30/22 | — | — | — | — | — | — |
| TA-55-0268 Warehouse | No Exposure | Annually | 1 | 11/30/22 | — | — | — | — | — | — |

2022 MSGP Annual Report

| Facility | Status | Required/ Recommended Inspection Frequency | Routine Facility Inspections and Other Walkdowns Conducted Between 1/1/2022 and 12/31/2022 | Inspection Dates | Unauthorized Release or Discharge | Control Measures Needing Maintenance, Repairs, or Replacement or Installed Incorrectly | Control Measures Inadequate to Meet Non- Numeric Effluent Limitations | Incidents of Noncompliance (Effluent Limitation Guidelines Exceedances) | Average Exceeds or is Mathematically Certain to Exceed Benchmark Value (AIM Triggering Event) | AIM Level at end of Reporting Period |
|--|-------------|---|--|---|---|---|---|--|---|--|
| TA-55-0314 Warehouse | No Exposure | Annually | 1 | 11/30/22 | — | — | — | — | — | — |
| TA-55-0355 TSD | No Exposure | Annually | 1 | 11/30/22 | — | — | 1 | — | — | — |
| TA-55-0430 Metal Shop | No Exposure | Annually | 1 | 11/30/22 | — | — | — | — | — | — |
| TA-55-0432 Warehouse | No Exposure | Annually | 1 | 11/30/22 | — | — | — | — | — | — |
| TA-55 Outdoor TSD | No Exposure | Annually | 1 | 11/30/22 | — | 1 | — | — | — | — |
| TA-60 Asphalt Batch Plant | Active | Monthly | 14 | 1/4/22, 1/25/22, 2/8/22, 3/1/22, 4/6/22, 5/3/22, 6/1/22, 6/27/22, 7/5/22, 8/1/22, 9/6/22, 10/3/22, 11/2/22, 12/20/22 | 1 | 1 | 4 | 2 | — | Baseline |
| TA-60 Material Recycling Facility | Active | Monthly | 13 | 1/25/22, 2/14/22, 3/2/22, 4/21/22, 5/18/22, 6/14/22, 7/18/22, 8/15/22, 9/13/22, 10/13/22, 11/8/22, 12/19/22, 12/20/22 | 2 | 2 | 3 | — | — | N/A |
| TA-60 Roads and Grounds and TA-61 Asphalt Staging Area | Active | Monthly | 21 | 1/31/22, 2/15/22, 3/16/22, 4/26/22, 5/31/22, 6/27/22, 6/28/22, 7/5/22, 7/25/22, 8/11/22, 8/29/22, 9/13/22, 9/22/22, 9/28/22, 10/20/22, 11/2/22, 11/22/22, 11/29/22, 12/10/22, 12/16/22, 12/19/22 | 9 | 6 | 23 | — | — | N/A |
| TA-60-0001 Heavy Equipment Yard | Active | Monthly | 22 | 1/20/22, 2/22/22, 3/22/22, 3/24/22, 4/22/22, 4/26/22, 5/24/22, 6/9/22, 6/16/22, 6/24/22, 7/18/22, 7/20/22, 8/2/22, 8/9/22, 8/19/22, 9/6/22, 9/29/22, 10/28/22 11/08/22, 11/21/22, 12/14/22, 12/21/22 | 17 | 3 | 8 | — | 2 | Zn and NO3+NO2-N – Baseline until Year 4, AI – AIM Level 1 |

2022 MSGP Annual Report

| Facility | Status | Required/ Recommended Inspection Frequency | Routine Facility Inspections and Other Walkdowns Conducted Between 1/1/2022 and 12/31/2022 | Inspection Dates | Unauthorized Release or Discharge | Control Measures Needing Maintenance, Repairs, or Replacement or Installed Incorrectly | Control Measures Inadequate to Meet Non- Numeric Effluent Limitations | Incidents of Noncompliance (Effluent Limitation Guidelines Exceedances) | Average Exceeds or is Mathematically Certain to Exceed Benchmark Value (AIM Triggering Event) | AIM Level at end of Reporting Period |
|--|-------------|---|--|---|---|---|---|--|---|---|
| TA-60-0002 Warehouse | Active | Monthly | 12 | 1/20/22, 2/24/22, 3/22/22, 4/19/22, 5/17/22, 6/15/22, 7/12/22, 8/18/22, 9/20/22, 10/18/22, 11/16/22, 12/19/22 | — | — | 4 | — | — | N/A |
| TA-63 Transuranic Waste Facility TSDs | No Exposure | Annually | 1 | 11/28/22 | — | — | — | — | — | — |

TA = Technical Area

TSD = Treatment, storage and disposal

WCRRF = Waste Characterization, Reduction, and Repackaging Facility

PF = Plutonium Facility

AIM = Additional Implementation Measures

N/A = Not applicable. Sector-specific requirements do not include benchmark monitoring.

2022 MSGP Annual Report

Table 2. Summary of Quarterly Visual Assessments

| Facility | Outfall | Outfall Type | Visual Assessments Performed between 1/1/2022 and 12/31/2022 | Visual Assessment Dates | Evidence of Pollutants Observed |
|--|---------|--------------|--|---|---------------------------------|
| TA-03-0038 Metal Fabrication Shops | 076 | Monitored | 2 | 6/23/22, 7/21/22 | None |
| | 077 | Monitored | 3 | 6/27/22, 8/1/22, 10/3/22 | None |
| TA-09-0214 Metal Fabrication Shop | 079 | Monitored | 1 | 7/5/22 | None |
| TA-16 Stockpile Area | 078 | Monitored | 1 | 8/2/22 | None |
| TA-60 Asphalt Batch Plant | 043 | Monitored | 3 | 6/27/22, 7/5/22, 8/1/22 | None |
| TA-60 Material Recycling Facility | 029 | Monitored | 4 | 3/18/22, 6/23/22, 7/21/22, 10/3/22 | None |
| TA-60 Roads and Grounds and TA-61 Asphalt Staging Area | 031 | Monitored | 3 | 6/27/22, 7/5/22, 10/17/22 | None |
| | 030 | SIDP to 031 | 4 | 1/6/22, 6/20/22, 7/5/22, 10/3/22 | None |
| | 032 | Monitored | 3 | 6/23/22, 7/5/22, 10/6/22 | None |
| | 033 | SIDP to 032 | 4 | 3/1/22, 6/20/22, 7/5/22, 10/3/22 | None |
| | 034 | SIDP to 032 | 4 | 3/1/22, 6/20/22, 7/5/22, 10/3/22 | None |
| | 035 | SIDP to 032 | 4 | 3/1/22, 6/23/22, 7/5/22, 10/3/22 | None |
| | 037 | Monitored | 2 | 6/28/22, 8/1/22 | None |
| | 039 | Monitored | 1 | 6/27/22 | None |
| | 042 | Monitored | 3 | 6/23/22, 7/5/22, 10/17/22 | None |
| TA-60-0001 Heavy Equipment Yard | 084 | Monitored | 0 | - | None |
| | 022 | Monitored | 5 | 1/3/22, 3/18/22, 6/27/22, 7/5/22, 10/6/22 | None |
| | 021 | SIDP to 022 | 4 | 1/6/22, 6/20/22, 7/5/22, 10/3/22 | None |
| | 023 | SIDP to 022 | 4 | 1/10/22, 6/20/22, 7/5/22, 10/3/22 | None |
| | 024 | SIDP to 022 | 4 | 1/3/22, 6/20/22, 7/18/22, 10/3/22 | None |
| TA-60-0002 Warehouse | 025 | SIDP to 022 | 4 | 1/10/22, 6/20/22, 7/5/22, 10/3/22 | None |
| | 026 | Monitored | 4 | 1/6/22, 6/23/22, 7/5/22, 10/3/22 | None |
| | 027 | SIDP to 026 | 4 | 2/10/22, 6/20/22, 7/5/22, 10/3/22 | None |
| | 028 | SIDP to 026 | 4 | 1/6/22, 6/20/22, 7/18/22, 10/3/22 | None |
| | 075 | Monitored | 3 | 6/23/22, 7/5/22, 10/3/22 | None |

TA = Technical Area

SIDP = Substantially Identical Discharge Point

NPDES
FORM
6100-28



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460
ANNUAL REPORT FOR STORMWATER DISCHARGES ASSOCIATED WITH
INDUSTRIAL ACTIVITY UNDER THE NPDES MULTI-SECTOR GENERAL PERMIT

FORM
Approved OMB No.
2040-0300

Permit Information

Report Year: 2021

Reporting Period: 1/1/2021 to 12/31/2021

NPDES ID: NMR050013

Facility Information

Facility Name: LOS ALAMOS NATIONAL LABORATORY

Facility Point of Contact

First Name Middle Initial Last Name: Terrill Lemke

Phone: 505-665-2397

Ext.:

Email: tlemke@lanl.gov

Facility Mailing Address

Address Line 1: PO BOX 1663

Address Line 2: MS K490

City: LOS ALAMOS

ZIP/Postal Code: 87545

State: NM

County or Similar Division: Los Alamos

General Findings

Provide a summary of your past year's routine facility inspection documentation, including dates (see Part 3.1.6 of the permit). In addition, if you are an operator of an airport facility (Sector S) that is subject to the airport effluent limitations guidelines, and are complying with the MSGP Part 8.S.9 effluent limitation through the use of non-urea-containing deicers, provide a statement certifying that you do not use pavement deicers containing urea (e.g., "Urea was not used at [name of airport] for pavement deicing in the past year and will also not be used in 2021." (Note: Operators of airport facilities that are complying with Part 8.S.9 by meeting the numeric effluent limitation for ammonia do not need to include this statement.)

Los Alamos National Laboratory (LANL), operated by Triad National Security, LLC (Triad), consists of 8 active industrial sites that operate under 4 different Sectors (D, N, P, and AA). Permit coverage became effective on June 25, 2021. All 8 active sites were inspected according the schedules identified in the site-specific Stormwater Pollution Prevention Plans (SWPPP s). The 40 sites that qualify for a conditional exclusion for no exposure were inspected between November 1 through 22, 2021. A summary of inspections and associated corrective actions are included in Table 1 (attached).

Provide a summary of your past year's quarterly visual assessment documentation, including dates (see Part 3.2.3 of the permit).

Please see Table 2 (attached) for a summary of visual assessment documentation.

Provide a summary of your past year's corrective action and/or additional implementation measures (AIM) documentation (See Part 5.3 of the permit). (Note: If corrective action is not yet completed at the time of submission of this annual report, you must describe the status of any outstanding corrective action(s).) Note that you must modify your SWPPP based on the corrective actions and deadlines required under Part 5. Also describe any incidents of noncompliance in the past year or currently ongoing, or if none, provide a statement that you are in compliance with the permit.

Please see Table 1 (attached) for a summary of corrective action documentation, which specifies the frequency of each of the following by site: (1) unauthorized release or discharge, (2) control measures needing maintenance, repair or replacement, (3) control measures that were inadequate to meet the non-numeric effluent limitations, (4) effluent limitation guidelines exceedances, and (5) benchmark exceedances (AIM triggering events). One AIM Level 1 triggering event occurred, which was identified on January 18, 2022. Triad is investigating possible sources and appropriate corrective action for the parameter exceedance (Nitrate plus Nitrite Nitrogen) at outfall 022. All other corrective actions were completed per the schedule provided in Part 5.1.3. LANL is in compliance with the permit.

Attached files:

| Name | Uploaded Date | Size |
|--|---------------|----------|
| 2021 Annual Report Tables 1 and 2.docx (arptAttachment/762698) | 01/24/2022 | 31.86 KB |

Certification Information

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I have no personal knowledge that the information submitted is other than true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Certified By: Jennifer payne

Certifier Title: Division Leader

Certifier Email: jpayne@lanl.gov

Certified On: 01/24/2022 5:43 PM ET

Table 1. Summary of Routine Facility Inspections and Associated Corrective Actions

| Facility | Status | Inspection Frequency | Inspections Conducted Between 6/25/2021 and 12/31/2021 | Inspection Dates | Unauthorized Release or Discharge | Control Measures Needing Maintenance, Repairs, or Replacement or Installed Incorrectly | Control Measures Inadequate to Meet Non-Numeric Effluent Limitations | Incidents of Noncompliance (Effluent Limitation Guidelines Exceedances) | Average Exceeds or is Mathematically Certain to Exceed Benchmark Value (AIM Triggering Event) | AIM Level at end of Reporting Period |
|---------------------------------|-------------|----------------------|--|---|-----------------------------------|--|--|---|---|--------------------------------------|
| TA-3-29 Indoor TSD | No Exposure | Annually | 1 | 11/8/2021 | — | — | — | — | — | — |
| TA-3-29 Machine Shop | No Exposure | Annually | 1 | 11/8/2021 | — | — | — | — | — | — |
| TA-3-30 Warehouse | No Exposure | Annually | 1 | 11/17/2021 | 1 | — | — | — | — | — |
| TA-3-32 Metal Shop | No Exposure | Annually | 1 | 11/17/2021 | — | — | 2 | — | — | — |
| TA-3-34 Metal Shop | No Exposure | Annually | 1 | 11/17/2021 | 1 | — | 1 | — | — | — |
| TA-3-38 Metals Fabrication Shop | Active | Monthly | 6 | 7/27/2021, 8/30/2021, 9/21/2021, 10/20/2021, 11/28/2021, 12/20/2021 | — | — | 4 | — | — | Baseline |
| TA-3-39 and 102 Metal Shop | No Exposure | Annually | 1 | 11/15/2021 | 3 | 1 | 4 | — | — | — |
| TA-3-40, Room 131S Machine | No Exposure | Annually | 1 | 11/17/2021 | — | — | — | — | — | — |
| TA-3-66 Sigma Facility | No Exposure | Annually | 1 | 11/17/2021 | 1 | 6 | 2 | — | — | — |

| Facility | Status | Inspection Frequency | Inspections Conducted Between 6/25/2021 and 12/31/2021 | Inspection Dates | Unauthorized Release or Discharge | Control Measures Needing Maintenance, Repairs, or Replacement or Installed Incorrectly | Control Measures Inadequate to Meet Non-Numeric Effluent Limitations | Incidents of Noncompliance (Effluent Limitation Guidelines Exceedances) | Average Exceeds or is Mathematically Certain to Exceed Benchmark Value (AIM Triggering Event) | AIM Level at end of Reporting Period |
|----------------------------------|-------------|----------------------|--|--|-----------------------------------|--|--|---|---|--------------------------------------|
| TA-3-2206 Warehouse | No Exposure | Annually | 1 | 11/8/2021 | — | — | — | — | — | — |
| TA-9-28 Heavy Equipment | No Exposure | Annually | 1 | 11/10/2021 | — | — | — | — | — | — |
| TA-9-0214 Metal Fabrication Shop | Active | Monthly | 6 | 7/29/2021, 8/27/2021, 9/30/2021, 10/28/2021, 11/8/2021, 12/22/2021 | 2 | — | 1 | — | — | Baseline |
| TA-14-23 Burn Cage | No Exposure | Annually | 1 | 11/10/2021 | — | — | — | — | — | — |
| TA-15-185 Phermex | No Exposure | Annually | 1 | 11/10/2021 | — | — | — | — | — | — |
| TA-15-313 Machine Shop | No Exposure | Annually | 1 | 11/10/2021 | — | — | — | — | — | — |
| TA-16 Stockpile Area | Active | Quarterly | 2 | 9/23/2021, 11/8/2021 | — | — | — | — | — | N/A |
| TA-22-52 Machine Shop | No Exposure | Annually | 1 | 11/10/2021 | — | — | — | — | — | — |
| TA-33-39 Machine Shop | No Exposure | Annually | 1 | 11/10/2021 | — | — | 1 | — | — | — |
| TA-33-113 Machine Shop | No Exposure | Annually | 1 | 11/10/2021 | — | — | — | — | — | — |
| TA-35-2 Machine Shop | No Exposure | Annually | 1 | 11/17/2021 | — | — | — | — | — | — |
| TA-35-125 Machine Shop | No Exposure | Annually | 1 | 11/17/2021 | — | — | 1 | — | — | — |
| TA-35-213 Target Fabrication | No Exposure | Annually | 1 | 11/17/2021 | — | 1 | 1 | — | — | — |
| TA-46-31 Machine Shop | No Exposure | Annually | 1 | 11/10/2021 | — | — | — | — | — | — |
| TA-46-77 Machine Shop | No Exposure | Annually | 1 | 11/10/2021 | — | — | 1 | — | — | — |
| TA-46-0624 Warehouse | No Exposure | Annually | 1 | 11/8/2021 | — | — | 1 | — | — | — |
| TA-48-8 Machine Shop | No Exposure | Annually | 1 | 11/17/2021 | — | — | 1 | — | — | — |
| TA-50-54 Machine Shop | No Exposure | Annually | 1 | 11/17/2021 | 1 | — | — | — | — | — |
| TA-50-69 WCRRF | No Exposure | Annually | 1 | 11/8/2021 | — | 1 | — | — | — | — |
| TA-53-2 Machine Shop | No Exposure | Annually | 1 | 11/11/2021 | — | — | — | — | — | — |
| TA-53-16/0726 Machine Shop | No Exposure | Annually | 1 | 11/11/2021 | — | — | 1 | — | — | — |
| TA-53-26 Machine Shop | No Exposure | Annually | 1 | 11/11/2021 | — | — | — | — | — | — |
| TA-54-38 Indoor TSD | No Exposure | Annually | 1 | 11/8/2021 | — | — | — | — | — | — |
| TA-54-38 Outdoor TSD | No Exposure | Annually | 1 | 11/8/2021 | — | 1 | — | — | — | — |
| TA-55-3 Metal Shop | No Exposure | Annually | 1 | 11/22/2021 | — | — | — | — | — | — |
| TA-55-PF-4 Indoor TSD | No Exposure | Annually | 1 | 11/22/2021 | — | — | — | — | — | — |
| TA-55-0005 Warehouse | No Exposure | Annually | 1 | 11/22/2021 | — | — | — | — | — | — |
| TA-55-0268 Warehouse | No Exposure | Annually | 1 | 11/8/2021 | — | — | 1 | — | — | — |
| TA-55-314 Warehouse | No Exposure | Annually | 1 | 11/22/2021 | — | — | — | — | — | — |
| TA-55-355 TSD | No Exposure | Annually | 1 | 11/22/2021 | — | — | — | — | — | — |
| TA-55-0430 Metal Shop | No Exposure | Annually | 1 | 11/22/2021 | — | — | — | — | — | — |
| TA-55-432 Warehouse | No Exposure | Annually | 1 | 11/8/2021 | — | — | — | — | — | — |

| Facility | Status | Inspection Frequency | Inspections Conducted Between 6/25/2021 and 12/31/2021 | Inspection Dates | Unauthorized Release or Discharge | Control Measures Needing Maintenance, Repairs, or Replacement or Installed Incorrectly | Control Measures Inadequate to Meet Non-Numeric Effluent Limitations | Incidents of Noncompliance (Effluent Limitation Guidelines Exceedances) | Average Exceeds or is Mathematically Certain to Exceed Benchmark Value (AIM Triggering Event) | AIM Level at end of Reporting Period |
|----------------------------------|-------------|----------------------|--|---|-----------------------------------|--|--|---|---|--------------------------------------|
| TA-55 Outdoor TSD | No Exposure | Annually | 1 | 11/22/2022 | — | — | — | — | — | — |
| TA-60 Asphalt Batch Plant | Active | Monthly | 6 | 7/12/2021, 8/2/2021, 9/1/2021, 10/3/2021, 11/9/2021, 12/20/2021 | — | — | — | — | — | Baseline |
| TA-60 MRF | Active | Monthly | 6 | 7/21/2021, 8/9/2021, 9/8/2021, 10/14/2021, 11/18/2021, 12/16/2021 | — | — | — | — | — | N/A |
| TA-60 Roads and Grounds | Active | Monthly | 6 | 7/22/2021, 8/18/2021, 9/27/2021, 10/19/2021, 11/29/2021, 12/20/2021 | 7 | 2 | 9 | — | — | N/A |
| TA-60-1 Heavy Equipment Yard | Active | Monthly | 6 | 7/23/2021, 8/23/2021, 9/17/2021, 10/15/2021, 11/15/2021, 12/9/2021 | 6 | 1 | 4 | — | 1 | Level 1 – NO3+NO2-N |
| TA-60-2 Warehouse | Active | Monthly | 6 | 7/21/2021, 8/24/2021, 9/22/2021, 10/28/2021, 11/16/2021, 12/14/2021 | 1 | — | 2 | — | — | N/A |
| TA-63 Transuranic Waste Facility | No Exposure | Annually | 1 | 11/8/2021 | — | — | — | — | — | — |

TA = Technical Area

TSD = Treatment, storage and disposal

WCRRF = Waste Characterization, Reduction, and Repackaging Facility

PF = Plutonium Facility

MRF = Material Recycling Facility

AIM = Additional Implementation Measures

N/A = Not applicable. Sector-specific requirements do not include benchmark monitoring.

Table 2. Summary of Quarterly Visual Assessments

| Facility | Outfall | Outfall Type | Visual Assessments Performed between 7/1/2021 and 12/31/2021 (Q1 and Q2) | Visual Assessment Dates | Evidence of Pollutants Observed |
|----------------------------------|---------|--------------|--|-------------------------|---------------------------------|
| TA-3-38 Metals Fabrication Shop | 076 | Monitored | 1 | 7/19/2021 | None |
| | 077 | Monitored | 1 | 7/29/2021 | None |
| TA-9-214 Metals Fabrication Shop | 078 | Monitored | 0 | - | - |
| TA-16 Stockpile Area | 079 | Monitored | 0 | - | - |
| TA-60 Asphalt Batch Plant | 043 | Monitored | 0 | - | - |
| TA-60 MRF | 029 | Monitored | 1 | 7/6/2021 | None |
| TA-60 Roads and Grounds | 031 | Monitored | 1 | 8/3/2021 | None |
| | 030 | SIDP to 031 | 1 | 7/21/2021 | None |
| | 032 | Monitored | 1 | 7/29/2021 | None |
| | 033 | SIDP to 032 | 1 | 7/21/2021 | None |
| | 034 | SIDP to 032 | 1 | 7/21/2021 | None |
| | 035 | SIDP to 032 | 1 | 7/21/2021 | None |
| | 037 | Monitored | 0 | - | - |
| | 039 | Monitored | 0 | - | - |
| TA-60-1 Heavy Equipment Yard | 042 | Monitored | 1 | 8/5/2021 | None |
| | 022 | Monitored | 1 | 7/14/2021 | None |
| | 021 | SIDP to 022 | 2 | 7/7/2021, 10/1/2021 | None |
| | 023 | SIDP to 022 | 2 | 7/21/2021, 10/1/2021 | None |
| | 024 | SIDP to 022 | 2 | 7/7/2021, 10/1/2021 | None |
| TA-60-2 Warehouse | 025 | SIDP to 022 | 2 | 7/7/2021, 10/1/2021 | None |
| | 026 | Monitored | 1 | 7/6/2021 | None |
| | 027 | SIDP to 026 | 1 | 10/1/2021 | None |
| | 028 | SIDP to 026 | 2 | 7/7/2021, 10/1/2021 | None |
| | 075 | Monitored | 1 | 7/29/2021 | None |

TA = Technical Area

MRF = Material Recycling Facility

SIDP = Substantially Identical Discharge Point

Q = Monitoring Quarter

ATTACHMENT 7: ROUTINE FACILITY INSPECTIONS

Maintenance Details

Requested: 1/13/2022 3:05:00 PM
Procedure: MSGP Routine Facility Inspection (EPC-CP-QP-2108 R0 Form 1)
Last PM: 12/20/2021
Project: Routine Facility Inspections January 2022 (P-MSGP-RI-5544)
Reason: 2022 January Inspections

Target: 1/31/2022
Priority/Type: / Inspection
Department: Utilities and Infrastructure

MSGP Program
 RG200.5
 TA-60 Roads and Grounds

*1/31/2022 Temp. 23°F High of 45°F
 Clear/Sunny
 Wind - Calm
 8:15 a.m.*

Contact:
Phone:

Tasks

| # | Description | Meas. | No | N/A | Yes |
|---|--|-------|--------------------------|-------------------------------------|-------------------------------------|
| Weather Information | | | | | |
| 20 | Describe the weather at time of inspection and document the temperature (F°). | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Within the Facility Boundary | | | | | |
| 40 | Is the facility free of previously unidentified discharges from and/or pollutants that have occurred since the last inspection If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 50 | If "No" has a CAR been previously initiated for this new discharge? | | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 60 | Is the facility free of discharge of pollutants at the time of inspection? If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 70 | Is the facility free of evidence of, or the potential for, pollutants entering the drainage system. If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Outfall Inspection (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant task comment) | | | | | |
| 90 | Monitored Outfall [031] DO: Free of Evidence of Erosion? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 100 | Monitored Outfall [031] DO: Flow Dissipation Devices Operating Effectively? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 110 | Monitored Outfall [031] DO: Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 120 | Monitored Outfall [031] DO: Free of any unauthorized non-stormwater discharges? If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 130 | Monitored Outfall [032] Free of Evidence of Erosion? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 140 | Monitored Outfall [032] Flow Dissipation Devices Operating Effectively? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 150 | Monitored Outfall [032] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 160 | Monitored Outfall [032] Free of any unauthorized non-stormwater discharges? If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 170 | Monitored Outfall [036] Free of Evidence of Erosion? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 180 | Monitored Outfall [036] Flow Dissipation Devices Operating Effectively? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 190 | Monitored Outfall [036] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 200 | Monitored Outfall [036] Free of any unauthorized non-stormwater discharges? If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 210 | Monitored Outfall [037] Free of Evidence of Erosion? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 220 | Monitored Outfall [037] Flow Dissipation Devices Operating Effectively? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 230 | Monitored Outfall [037] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 240 | Monitored Outfall [037] Free of any unauthorized non-stormwater discharges? If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

| | | | | |
|-----|--|--------------------------|--------------------------|-------------------------------------|
| 250 | Monitored Outfall [039] Free of Evidence of Erosion? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 260 | Monitored Outfall [039] Flow Dissipation Devices Operating Effectively? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 270 | Monitored Outfall [039] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 280 | Monitored Outfall [039] Free of any unauthorized non-stormwater discharges? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 290 | Monitored Outfall [042] Free of Evidence of Erosion? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 300 | Monitored Outfall [042] Flow Dissipation Devices Operating Effectively? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 310 | Monitored Outfall [042] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 320 | Monitored Outfall [042] Free of any unauthorized non-stormwater discharges? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 330 | Substantially Identical Outfall [030] Free of Evidence of Erosion? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 340 | Substantially Identical Outfall [030] Flow Dissipation Devices Operating Effectively? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 350 | Substantially Identical Outfall [030] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 360 | Substantially Identical Outfall [030] Free of any unauthorized non-stormwater discharges? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 370 | Substantially Identical Outfall [033] Free of Evidence of Erosion? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 380 | Substantially Identical Outfall [033] Flow Dissipation Devices Operating Effectively? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 390 | Substantially Identical Outfall [033] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 400 | Substantially Identical Outfall [033] Free of any unauthorized non-stormwater discharges? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 410 | Substantially Identical Outfall [034] Free of Evidence of Erosion? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 420 | Substantially Identical Outfall [034] Flow Dissipation Devices Operating Effectively? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 430 | Substantially Identical Outfall [034] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 440 | Substantially Identical Outfall [034] Free of any unauthorized non-stormwater discharges? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 450 | Substantially Identical Outfall [035] Free of Evidence of Erosion? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 460 | Substantially Identical Outfall [035] Flow Dissipation Devices Operating Effectively? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 470 | Substantially Identical Outfall [035] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 480 | Substantially Identical Outfall [035] Free of any unauthorized non-stormwater discharges? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 490 | Substantially Identical Outfall [038] Free of Evidence of Erosion? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 500 | Substantially Identical Outfall [038] Flow Dissipation Devices Operating Effectively? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 510 | Substantially Identical Outfall [038] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 520 | Substantially Identical Outfall [038] Free of any unauthorized non-stormwater discharges? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 530 | Substantially Identical Outfall [040] Free of Evidence of Erosion? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 540 | Substantially Identical Outfall [040] Flow Dissipation Devices Operating Effectively? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 550 | Substantially Identical Outfall [040] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 560 | Substantially Identical Outfall [040] Free of any unauthorized non-stormwater discharges? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 570 | Substantially Identical Outfall [041] Free of Evidence of Erosion? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 580 | Substantially Identical Outfall [041] Flow Dissipation Devices Operating Effectively? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 590 | Substantially Identical Outfall [041] Free of Evidence of Pollutants in Discharges and/or | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Receiving Water? If "No", describe.

| | | | | |
|--|--|--------------------------|--------------------------|-------------------------------------|
| 600 | Substantially Identical Outfall [041] Free of any unauthorized non-stormwater discharges? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Control Measures (identify needed maintenance and repairs, failed control measures that need replacment, or a description of corrective actions in relevant task comments). | | | | |
| 620 | Asphalt Berm [6000303040052] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 630 | Asphalt Berm [6000303040062] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 640 | Asphalt Berm [6000303040097] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 650 | Rock Channel/Swale [6000304030016] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 660 | Rock Channel/Swale [6000304030039] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 670 | Rock Channel/Swale [6000304030040] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 680 | Rock Channel/Swale [6000304030060] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 690 | Rock Channel/Swale [6000304030095] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 700 | Rock Channel/Swale [6000304030096] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 710 | Rip Rap [6000304060011] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 720 | Rip Rap [6000304060014] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 730 | Rip Rap [6000304060022] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 740 | Rip Rap [6000304060025] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 750 | Rip Rap [6000304060026] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 760 | Rip Rap [6000304060027] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 770 | Rip Rap [6000304060029] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 780 | Rip Rap [6000304060032] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 790 | Rip Rap [6000304060033] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 800 | Rip Rap [6000304060066] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 810 | Earthen Berm [6000303010034] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 820 | Earthen Berm [6000303010036] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 830 | Earthen Berm [6000303010037] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 840 | Earthen Berm [6000303010038] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 850 | Earthen Berm [6000303010043] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 860 | Earthen Berm [6000303010075] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 870 | Straw Wattle [6000303060078] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 880 | Sediment Basin [6000305020018] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 890 | Sediment Basin [6000305020041] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

| | | | | |
|------|--|--------------------------|--------------------------|-------------------------------------|
| 900 | Rock Check Dam [6000306010001] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 910 | Rock Check Dam [6000306010002] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 920 | Rock Check Dam [6000306010003] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 930 | Rock Check Dam [6000306010004] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 940 | Rock Check Dam [6000306010008] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 950 | Trench Drain [6000309040057] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 960 | Jersey Barriers [6000303170015] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 970 | EnviroSoxx w/ MetalLoxx [6000303200086] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 980 | EnviroSoxx w/ MetalLoxx [6000303200087] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 990 | EnviroSoxx w/ MetalLoxx [6000303200088] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1000 | EnviroSoxx w/ MetalLoxx [6000303200089] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1010 | EnviroSoxx w/ MetalLoxx [6000303200090] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1020 | EnviroSoxx w/ MetalLoxx [6000303200091] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1030 | EnviroSoxx w/ MetalLoxx [6000303200092] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1040 | EnviroSoxx w/ MetalLoxx [6000303200093] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1050 | EnviroSoxx w/ MetalLoxx [6000303200094] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1060 | Permanent Vegetation Vegetative Buffer Strip [6000302030042] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1070 | TRM-Lined Swale [6000304080061] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Area/Activity exposed to stormwater (identify needed maintenance or a description of corrective actions in relevant task comment).

| | | | | |
|------|--|--------------------------|-------------------------------------|-------------------------------------|
| 1090 | Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1100 | Transfer areas for substances in bulk: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1110 | Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1120 | Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1130 | Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 1140 | Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1150 | Fueling areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1160 | Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 1170 | Machinery: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1180 | Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1190 | Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 1200 | Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

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| 1210 | Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1220 | Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1230 | Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If "No" describe. | <i>Refer to Labor Report</i> | | <input checked="" type="checkbox"/> |
| 1240 | Leaks and spills: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1250 | Sector P [60003-P] Vehicle storage/maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Non-Compliance | | | | |
| 1270 | Free of incidents of observed non-compliance not already identified above? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Additional Control Measures | | | | |
| 1290 | Are permit requirements satisfied with existing control measure(s)? If "No" describe additional control measures needed. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Labor Report

Completed: At the entrance to the heavy equipment staging area W. of Salt Shed 60-0178 there's a trash bin w/ an open lid of trash on the ground that is a housekeeping & entered into the MSGP tracking database as CAR # 2066.

Report: _____

Leonard F. Sandoval 1/31/2022 9:30 a.m.

Signature / Name Date Signature / Name Date

I confirm the information as recorded is true, accurate and complete.

CERTIFICATION STATEMENT

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations".

(Signatory must meet definition in Section B.11.A, eg. FOD, Ops Mgr, DESH Group Leader, EPC Group Leader)

Print name and title: Phillip Ulibarri UI-OPS-MGR

Signature: *[Signature]* Date: 02/01/22

There was 2 to 3" of frozen snow throughout the facility & the sediment retention pond @ the far E. end of Sigma Mesa was frozen.

Maintenance Details

Requested: 1/13/2022 3:03:00 PM **Target:** 2/28/2022
Procedure: MSGP Routine Facility Inspection (EPC-CP-QP-2108 R0 Form 1) **Priority/Type:** / Inspection
Last PM: 12/20/2021 **Department:** Utilities and Infrastructure
Project: Routine Facility Inspections February 2022 (P-MSGP-RI-5545) **Contact:**
Reason: 2022 February Inspections **Phone:**

 MSGP Program
 RG200.5
 TA-60 Roads and Grounds

*2/15/2022 Temp. 32°F High of 52°F
 Fair to Mostly Cloudy
 Wind - Less than 5mph
 8:18 a.m.*

Tasks

| # | Description | Meas. | No | N/A | Yes |
|---|--|-------|--------------------------|-------------------------------------|-------------------------------------|
| Weather Information | | | | | |
| 20 | Describe the weather at time of inspection and document the temperature (F°). | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Within the Facility Boundary | | | | | |
| 40 | Is the facility free of previously unidentified discharges from and/or pollutants that have occurred since the last inspection If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 50 | If "No" has a CAR been previously initiated for this new discharge? | | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 60 | Is the facility free of discharge of pollutants at the time of inspection? If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 70 | Is the facility free of evidence of, or the potential for, pollutants entering the drainage system. If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Outfall Inspection (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant task comment) | | | | | |
| 90 | Monitored Outfall [031] DO: Free of Evidence of Erosion? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 100 | Monitored Outfall [031] DO: Flow Dissipation Devices Operating Effectively? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 110 | Monitored Outfall [031] DO: Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 120 | Monitored Outfall [031] DO: Free of any unauthorized non-stormwater discharges? If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 130 | Monitored Outfall [032] Free of Evidence of Erosion? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 140 | Monitored Outfall [032] Flow Dissipation Devices Operating Effectively? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 150 | Monitored Outfall [032] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 160 | Monitored Outfall [032] Free of any unauthorized non-stormwater discharges? If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 170 | Monitored Outfall [036] Free of Evidence of Erosion? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 180 | Monitored Outfall [036] Flow Dissipation Devices Operating Effectively? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 190 | Monitored Outfall [036] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 200 | Monitored Outfall [036] Free of any unauthorized non-stormwater discharges? If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 210 | Monitored Outfall [037] Free of Evidence of Erosion? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 220 | Monitored Outfall [037] Flow Dissipation Devices Operating Effectively? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 230 | Monitored Outfall [037] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 240 | Monitored Outfall [037] Free of any unauthorized non-stormwater discharges? If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

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| 250 | Monitored Outfall [039] Free of Evidence of Erosion? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 260 | Monitored Outfall [039] Flow Dissipation Devices Operating Effectively? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 270 | Monitored Outfall [039] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 280 | Monitored Outfall [039] Free of any unauthorized non-stormwater discharges? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 290 | Monitored Outfall [042] Free of Evidence of Erosion? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 300 | Monitored Outfall [042] Flow Dissipation Devices Operating Effectively? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 310 | Monitored Outfall [042] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 320 | Monitored Outfall [042] Free of any unauthorized non-stormwater discharges? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 330 | Substantially Identical Outfall [030] Free of Evidence of Erosion? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 340 | Substantially Identical Outfall [030] Flow Dissipation Devices Operating Effectively? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 350 | Substantially Identical Outfall [030] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 360 | Substantially Identical Outfall [030] Free of any unauthorized non-stormwater discharges? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 370 | Substantially Identical Outfall [033] Free of Evidence of Erosion? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 380 | Substantially Identical Outfall [033] Flow Dissipation Devices Operating Effectively? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 390 | Substantially Identical Outfall [033] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 400 | Substantially Identical Outfall [033] Free of any unauthorized non-stormwater discharges? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 410 | Substantially Identical Outfall [034] Free of Evidence of Erosion? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 420 | Substantially Identical Outfall [034] Flow Dissipation Devices Operating Effectively? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 430 | Substantially Identical Outfall [034] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 440 | Substantially Identical Outfall [034] Free of any unauthorized non-stormwater discharges? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 450 | Substantially Identical Outfall [035] Free of Evidence of Erosion? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 460 | Substantially Identical Outfall [035] Flow Dissipation Devices Operating Effectively? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 470 | Substantially Identical Outfall [035] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 480 | Substantially Identical Outfall [035] Free of any unauthorized non-stormwater discharges? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 490 | Substantially Identical Outfall [038] Free of Evidence of Erosion? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 500 | Substantially Identical Outfall [038] Flow Dissipation Devices Operating Effectively? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 510 | Substantially Identical Outfall [038] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 520 | Substantially Identical Outfall [038] Free of any unauthorized non-stormwater discharges? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 530 | Substantially Identical Outfall [040] Free of Evidence of Erosion? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 540 | Substantially Identical Outfall [040] Flow Dissipation Devices Operating Effectively? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 550 | Substantially Identical Outfall [040] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 560 | Substantially Identical Outfall [040] Free of any unauthorized non-stormwater discharges? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 570 | Substantially Identical Outfall [041] Free of Evidence of Erosion? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 580 | Substantially Identical Outfall [041] Flow Dissipation Devices Operating Effectively? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 590 | Substantially Identical Outfall [041] Free of Evidence of Pollutants in Discharges and/or | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Receiving Water? If "No", describe.

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| 600 | Substantially Identical Outfall [041] Free of any unauthorized non-stormwater discharges? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
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Control Measures (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant task comments).

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| 620 | Asphalt Berm [6000303040052] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
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| 630 | Asphalt Berm [6000303040062] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
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| 640 | Asphalt Berm [6000303040097] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
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| 650 | Rock Channel/Swale [6000304030016] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
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| 660 | Rock Channel/Swale [6000304030039] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
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| 670 | Rock Channel/Swale [6000304030040] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
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| 680 | Rock Channel/Swale [6000304030060] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
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| 690 | Rock Channel/Swale [6000304030095] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
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| 700 | Rock Channel/Swale [6000304030096] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
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| 710 | Rip Rap [6000304060011] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
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| 720 | Rip Rap [6000304060014] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
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| 730 | Rip Rap [6000304060022] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
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| 740 | Rip Rap [6000304060025] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
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| 750 | Rip Rap [6000304060026] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
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| 760 | Rip Rap [6000304060027] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
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| 770 | Rip Rap [6000304060029] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
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| 780 | Rip Rap [6000304060032] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
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| 790 | Rip Rap [6000304060033] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
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| 800 | Rip Rap [6000304060066] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
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| 810 | Earthen Berm [6000303010034] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
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| 820 | Earthen Berm [6000303010036] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
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| 830 | Earthen Berm [6000303010037] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
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| 840 | Earthen Berm [6000303010038] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
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| 850 | Earthen Berm [6000303010043] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
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| 860 | Earthen Berm [6000303010075] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
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| 870 | Straw Wattle [6000303060078] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
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| 880 | Sediment Basin [6000305020018] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
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| 890 | Sediment Basin [6000305020041] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
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| 900 | Rock Check Dam [6000306010001] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 910 | Rock Check Dam [6000306010002] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 920 | Rock Check Dam [6000306010003] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 930 | Rock Check Dam [6000306010004] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 940 | Rock Check Dam [6000306010008] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 950 | Trench Drain [6000309040057] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 960 | Jersey Barriers [6000303170015] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 970 | EnviroSoxx w/ MetalLoxx [6000303200086] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 980 | EnviroSoxx w/ MetalLoxx [6000303200087] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 990 | EnviroSoxx w/ MetalLoxx [6000303200088] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1000 | EnviroSoxx w/ MetalLoxx [6000303200089] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1010 | EnviroSoxx w/ MetalLoxx [6000303200090] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1020 | EnviroSoxx w/ MetalLoxx [6000303200091] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1030 | EnviroSoxx w/ MetalLoxx [6000303200092] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1040 | EnviroSoxx w/ MetalLoxx [6000303200093] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1050 | EnviroSoxx w/ MetalLoxx [6000303200094] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1060 | Permanent Vegetation Vegetative Buffer Strip [6000302030042] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1070 | TRM-Lined Swale [6000304080061] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Area/Activity exposed to stormwater (identify needed maintenance or a description of corrective actions in relevant task comment).

| | | | | |
|------|--|--------------------------|-------------------------------------|-------------------------------------|
| 1090 | Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1100 | Transfer areas for substances in bulk: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1110 | Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1120 | Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1130 | Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 1140 | Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1150 | Fueling areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1160 | Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 1170 | Machinery: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1180 | Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1190 | Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 1200 | Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

| | | | | |
|------|---|-------------------------------------|--------------------------|-------------------------------------|
| 1210 | Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1220 | Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1230 | Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1240 | Leaks and spills: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 1250 | Sector P [60003-P] Vehicle storage/maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Non-Compliance

| | | | | |
|------|--|--------------------------|--------------------------|-------------------------------------|
| 1270 | Free of incidents of observed non-compliance not already identified above? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
|------|--|--------------------------|--------------------------|-------------------------------------|

Additional Control Measures

| | | | | |
|------|--|--------------------------|--------------------------|-------------------------------------|
| 1290 | Are permit requirements satisfied with existing control measure(s)? If "No" describe additional control measures needed. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
|------|--|--------------------------|--------------------------|-------------------------------------|

Labor

| Labor | Assigned | Work Date | Reg Hrs | OT Hrs | Other Hrs |
|------------------|--------------|-----------|---------|--------|-----------|
| Leonard Sandoval | 2/1/2022 / 1 | | | | |

Labor Report

Completed: _____

Report:

Mud being tracked in & out of the pathing staging area and entered into the MSGP tracking database as CAR# 2010.
 On a elevated metal stand w/ stairs there's five 5 gallon containers of Blue Kote & hand sprays entered into the MSGP tracking database for improper storage of a chemical product as CAR# 2011.

Leonard F. Sandoval 2/15/2022 9:24 a.m.

Signature / Name Date Signature / Name Date

I confirm the information as recorded is true, accurate and complete.

CERTIFICATION STATEMENT

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations".

(Signatory must meet definition in Section B.11.A, eg. FOD, Ops Mgr, DESH Group Leader, EPC Group Leader)

Print name and title: DAVIDE TRUJILLO, OPS - MANAGER - U 1

Signature: [Signature] Date: 2-28-22

In the paved staging area N. of the old Asphalt Batch plant there's a yellow snow blade for pushing snow leaking hydraulic fluid onto asphalt from the disconnect lines & entered into the MSGP tracking database as CAR# 2012.

Maintenance Details

Requested: 3/14/2022 4:54:00 PM

Target: 3/31/2022

 MSGP Program

Procedure: MSGP Routine Facility Inspection (EPC-CP-QP-2108 R0 Form 1)

Priority/Type: / Inspection

 RG200.5

Department: Utilities and Infrastructure

 TA-60 Roads and Grounds

Last PM: 3/7/2022

Project: Routine Facility Inspections March 2022 (P-MSGP-RI-5560)

Contact:
Phone:

Reason: 2022 March Inspections

*3/16/2022 Temp. 35°F / High of 60°F
Fair to Partly Cloudy
Wind - Smp
8:04 a.m.*

Tasks

| # | Description | Meas. | No | N/A | Yes |
|---|--|-------|--------------------------|-------------------------------------|-------------------------------------|
| Weather Information | | | | | |
| 20 | Describe the weather at time of inspection and document the temperature (F°). | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Within the Facility Boundary | | | | | |
| 40 | Is the facility free of previously unidentified discharges from and/or pollutants that have occurred since the last inspection If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 50 | If "No" has a CAR been previously initiated for this new discharge? | | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 60 | Is the facility free of discharge of pollutants at the time of inspection? If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 70 | Is the facility free of evidence of, or the potential for, pollutants entering the drainage system. If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Outfall Inspection (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant task comment) | | | | | |
| 90 | Monitored Outfall [031] DO: Free of Evidence of Erosion? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 100 | Monitored Outfall [031] DO: Flow Dissipation Devices Operating Effectively? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 110 | Monitored Outfall [031] DO: Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 120 | Monitored Outfall [031] DO: Free of any unauthorized non-stormwater discharges? If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 130 | Monitored Outfall [032] Free of Evidence of Erosion? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 140 | Monitored Outfall [032] Flow Dissipation Devices Operating Effectively? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 150 | Monitored Outfall [032] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 160 | Monitored Outfall [032] Free of any unauthorized non-stormwater discharges? If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 170 | Monitored Outfall [036] Free of Evidence of Erosion? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 180 | Monitored Outfall [036] Flow Dissipation Devices Operating Effectively? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 190 | Monitored Outfall [036] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 200 | Monitored Outfall [036] Free of any unauthorized non-stormwater discharges? If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 210 | Monitored Outfall [037] Free of Evidence of Erosion? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 220 | Monitored Outfall [037] Flow Dissipation Devices Operating Effectively? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 230 | Monitored Outfall [037] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 240 | Monitored Outfall [037] Free of any unauthorized non-stormwater discharges? If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

| | | | | |
|-----|--|--------------------------|--------------------------|-------------------------------------|
| 250 | Monitored Outfall [039] Free of Evidence of Erosion? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 260 | Monitored Outfall [039] Flow Dissipation Devices Operating Effectively? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 270 | Monitored Outfall [039] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 280 | Monitored Outfall [039] Free of any unauthorized non-stormwater discharges? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 290 | Monitored Outfall [042] Free of Evidence of Erosion? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 300 | Monitored Outfall [042] Flow Dissipation Devices Operating Effectively? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 310 | Monitored Outfall [042] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 320 | Monitored Outfall [042] Free of any unauthorized non-stormwater discharges? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 330 | Substantially Identical Outfall [030] Free of Evidence of Erosion? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 340 | Substantially Identical Outfall [030] Flow Dissipation Devices Operating Effectively? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 350 | Substantially Identical Outfall [030] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 360 | Substantially Identical Outfall [030] Free of any unauthorized non-stormwater discharges? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 370 | Substantially Identical Outfall [033] Free of Evidence of Erosion? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 380 | Substantially Identical Outfall [033] Flow Dissipation Devices Operating Effectively? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 390 | Substantially Identical Outfall [033] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 400 | Substantially Identical Outfall [033] Free of any unauthorized non-stormwater discharges? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 410 | Substantially Identical Outfall [034] Free of Evidence of Erosion? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 420 | Substantially Identical Outfall [034] Flow Dissipation Devices Operating Effectively? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 430 | Substantially Identical Outfall [034] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 440 | Substantially Identical Outfall [034] Free of any unauthorized non-stormwater discharges? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 450 | Substantially Identical Outfall [035] Free of Evidence of Erosion? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 460 | Substantially Identical Outfall [035] Flow Dissipation Devices Operating Effectively? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 470 | Substantially Identical Outfall [035] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 480 | Substantially Identical Outfall [035] Free of any unauthorized non-stormwater discharges? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 490 | Substantially Identical Outfall [038] Free of Evidence of Erosion? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 500 | Substantially Identical Outfall [038] Flow Dissipation Devices Operating Effectively? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 510 | Substantially Identical Outfall [038] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 520 | Substantially Identical Outfall [038] Free of any unauthorized non-stormwater discharges? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 530 | Substantially Identical Outfall [040] Free of Evidence of Erosion? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 540 | Substantially Identical Outfall [040] Flow Dissipation Devices Operating Effectively? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 550 | Substantially Identical Outfall [040] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 560 | Substantially Identical Outfall [040] Free of any unauthorized non-stormwater discharges? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 570 | Substantially Identical Outfall [041] Free of Evidence of Erosion? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 580 | Substantially Identical Outfall [041] Flow Dissipation Devices Operating Effectively? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 590 | Substantially Identical Outfall [041] Free of Evidence of Pollutants in Discharges and/or | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

| | | | | |
|---|--|--------------------------|--------------------------|-------------------------------------|
| | Receiving Water? If "No", describe. | | | |
| 600 | Substantially Identical Outfall [041] Free of any unauthorized non-stormwater discharges? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Control Measures (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant task comments). | | | | |
| 620 | Asphalt Berm [6000303040052] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 630 | Asphalt Berm [6000303040062] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 640 | Asphalt Berm [6000303040097] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 650 | Rock Channel/Swale [6000304030016] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 660 | Rock Channel/Swale [6000304030039] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 670 | Rock Channel/Swale [6000304030040] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 680 | Rock Channel/Swale [6000304030060] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 690 | Rock Channel/Swale [6000304030095] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 700 | Rock Channel/Swale [6000304030096] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 710 | Rip Rap [6000304060011] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 720 | Rip Rap [6000304060014] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 730 | Rip Rap [6000304060022] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 740 | Rip Rap [6000304060025] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 750 | Rip Rap [6000304060026] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 760 | Rip Rap [6000304060027] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 770 | Rip Rap [6000304060029] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 780 | Rip Rap [6000304060032] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 790 | Rip Rap [6000304060033] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 800 | Rip Rap [6000304060066] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 810 | Earthen Berm [6000303010034] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 820 | Earthen Berm [6000303010036] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 830 | Earthen Berm [6000303010037] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 840 | Earthen Berm [6000303010038] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 850 | Earthen Berm [6000303010043] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 860 | Earthen Berm [6000303010075] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 870 | Straw Wattle [6000303060078] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 880 | Sediment Basin [6000305020018] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 890 | Sediment Basin [6000305020041] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

| | | | | |
|------|--|--------------------------|--------------------------|-------------------------------------|
| 900 | Rock Check Dam [6000306010001] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 910 | Rock Check Dam [6000306010002] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 920 | Rock Check Dam [6000306010003] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 930 | Rock Check Dam [6000306010004] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 940 | Rock Check Dam [6000306010008] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 950 | Trench Drain [6000309040057] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 960 | Jersey Barriers [6000303170015] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 970 | EnviroSoxx w/ MetalLoxx [6000303200086] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 980 | EnviroSoxx w/ MetalLoxx [6000303200087] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 990 | EnviroSoxx w/ MetalLoxx [6000303200088] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1000 | EnviroSoxx w/ MetalLoxx [6000303200089] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1010 | EnviroSoxx w/ MetalLoxx [6000303200090] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1020 | EnviroSoxx w/ MetalLoxx [6000303200091] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1030 | EnviroSoxx w/ MetalLoxx [6000303200092] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1040 | EnviroSoxx w/ MetalLoxx [6000303200093] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1050 | EnviroSoxx w/ MetalLoxx [6000303200094] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1060 | Permanent Vegetation Vegetative Buffer Strip [6000302030042] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1070 | TRM-Lined Swale [6000304080061] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Area/Activity exposed to stormwater (identify needed maintenance or a description of corrective actions in relevant task comment).

| | | | | |
|------|--|--------------------------|-------------------------------------|-------------------------------------|
| 1090 | Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1100 | Transfer areas for substances in bulk: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1110 | Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1120 | Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1130 | Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 1140 | Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1150 | Fueling areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1160 | Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 1170 | Machinery: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1180 | Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1190 | Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 1200 | Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

Maintenance Details

Requested: 4/5/2022 4:47:00 PM
Procedure: MSGP Routine Facility Inspection (EPC-CP-QP-2108 R0 Form 1)
Last PM: 3/16/2022
Project: Routine Facility Inspections April 2022 (P-MSGP-RI-5567)
Reason: 2022 April Inspections

Target: 4/28/2022
Priority/Type: Normal / Inspection
Department: Utilities and Infrastructure

MSGP Program
 RG200.5
 TA-60 Roads and Grounds

Contact:
Phone:

4/26/2022
Temp. 36°F High of 67°F
Clear/Sunny/Haze
of smoke from wildfires
Wind - S to 10 mph
7:55 a.m.

Tasks

| # | Description | Meas. | No | N/A | Yes |
|---|--|-------|--------------------------|--------------------------|-------------------------------------|
| Weather Information | | | | | |
| 20 | Describe the weather at time of inspection and document the temperature (F°). | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Within the Facility Boundary | | | | | |
| 40 | Is the facility free of previously unidentified discharges from and/or pollutants that have occurred since the last inspection If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 50 | If "No" has a CAR been previously initiated for this new discharge? | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 60 | Is the facility free of discharge of pollutants at the time of inspection? If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 70 | Is the facility free of evidence of, or the potential for, pollutants entering the drainage system. If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Outfall Inspection (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant task comment) | | | | | |
| 90 | Monitored Outfall [031] DO: Free of Evidence of Erosion? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 100 | Monitored Outfall [031] DO: Flow Dissipation Devices Operating Effectively? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 110 | Monitored Outfall [031] DO: Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 120 | Monitored Outfall [031] DO: Free of any unauthorized non-stormwater discharges? If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 130 | Monitored Outfall [032] Free of Evidence of Erosion? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 140 | Monitored Outfall [032] Flow Dissipation Devices Operating Effectively? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 150 | Monitored Outfall [032] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 160 | Monitored Outfall [032] Free of any unauthorized non-stormwater discharges? If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 170 | Monitored Outfall [036] Free of Evidence of Erosion? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 180 | Monitored Outfall [036] Flow Dissipation Devices Operating Effectively? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 190 | Monitored Outfall [036] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 200 | Monitored Outfall [036] Free of any unauthorized non-stormwater discharges? If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 210 | Monitored Outfall [037] Free of Evidence of Erosion? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 220 | Monitored Outfall [037] Flow Dissipation Devices Operating Effectively? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 230 | Monitored Outfall [037] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 240 | Monitored Outfall [037] Free of any unauthorized non-stormwater discharges? If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 250 | Monitored Outfall [039] Free of Evidence of Erosion? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 260 | Monitored Outfall [039] Flow Dissipation Devices Operating Effectively? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 270 | Monitored Outfall [039] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 280 | Monitored Outfall [039] Free of any unauthorized non-stormwater discharges? If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 290 | Monitored Outfall [042] Free of Evidence of Erosion? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 300 | Monitored Outfall [042] Flow Dissipation Devices Operating Effectively? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 310 | Monitored Outfall [042] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 320 | Monitored Outfall [042] Free of any unauthorized non-stormwater discharges? If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

| | | | | |
|-----|--|--------------------------|--------------------------|-------------------------------------|
| 330 | Substantially Identical Outfall [030] Free of Evidence of Erosion? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 340 | Substantially Identical Outfall [030] Flow Dissipation Devices Operating Effectively? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 350 | Substantially Identical Outfall [030] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 360 | Substantially Identical Outfall [030] Free of any unauthorized non-stormwater discharges? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 370 | Substantially Identical Outfall [033] Free of Evidence of Erosion? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 380 | Substantially Identical Outfall [033] Flow Dissipation Devices Operating Effectively? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 390 | Substantially Identical Outfall [033] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 400 | Substantially Identical Outfall [033] Free of any unauthorized non-stormwater discharges? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 410 | Substantially Identical Outfall [034] Free of Evidence of Erosion? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 420 | Substantially Identical Outfall [034] Flow Dissipation Devices Operating Effectively? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 430 | Substantially Identical Outfall [034] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 440 | Substantially Identical Outfall [034] Free of any unauthorized non-stormwater discharges? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 450 | Substantially Identical Outfall [035] Free of Evidence of Erosion? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 460 | Substantially Identical Outfall [035] Flow Dissipation Devices Operating Effectively? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 470 | Substantially Identical Outfall [035] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 480 | Substantially Identical Outfall [035] Free of any unauthorized non-stormwater discharges? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 490 | Substantially Identical Outfall [038] Free of Evidence of Erosion? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 500 | Substantially Identical Outfall [038] Flow Dissipation Devices Operating Effectively? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 510 | Substantially Identical Outfall [038] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 520 | Substantially Identical Outfall [038] Free of any unauthorized non-stormwater discharges? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 530 | Substantially Identical Outfall [040] Free of Evidence of Erosion? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 540 | Substantially Identical Outfall [040] Flow Dissipation Devices Operating Effectively? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 550 | Substantially Identical Outfall [040] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 560 | Substantially Identical Outfall [040] Free of any unauthorized non-stormwater discharges? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 570 | Substantially Identical Outfall [041] Free of Evidence of Erosion? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 580 | Substantially Identical Outfall [041] Flow Dissipation Devices Operating Effectively? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 590 | Substantially Identical Outfall [041] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 600 | Substantially Identical Outfall [041] Free of any unauthorized non-stormwater discharges? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Control Measures (Identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant task comments).

| | | | | |
|-----|--|--------------------------|--------------------------|-------------------------------------|
| 620 | Asphalt Berm [6000303040052] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 630 | Asphalt Berm [6000303040062] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 640 | Asphalt Berm [6000303040097] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 650 | Rock Channel/Swale [6000304030016] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 660 | Rock Channel/Swale [6000304030039] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 670 | Rock Channel/Swale [6000304030040] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

| | | | | |
|------|---|--------------------------|--------------------------|-------------------------------------|
| | describe condition & need for Maintenance, Repair, or Replacement. | | | |
| 1010 | EnviroSoxx w/ MetalLoxx [6000303200090] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1020 | EnviroSoxx w/ MetalLoxx [6000303200091] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1030 | EnviroSoxx w/ MetalLoxx [6000303200092] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1040 | EnviroSoxx w/ MetalLoxx [6000303200093] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1050 | EnviroSoxx w/ MetalLoxx [6000303200094] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1060 | Permanent Vegetation Vegetative Buffer Strip [6000302030042] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1070 | TRM-Lined Swale [6000304080061] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Area/Activity exposed to stormwater (identify needed maintenance or a description of corrective actions in relevant task comment).

| | | | | |
|------|---|--------------------------|-------------------------------------|-------------------------------------|
| 1090 | Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1100 | Transfer areas for substances in bulk: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1110 | Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1120 | Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1130 | Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 1140 | Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1150 | Fueling areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1160 | Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 1170 | Machinery: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1180 | Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1190 | Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1200 | Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1210 | Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1220 | Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1230 | Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1240 | Leaks and spills: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1250 | Sector P [60003-P] Vehicle storage/maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Non-Compliance

| | | | | |
|------|--|--------------------------|--------------------------|-------------------------------------|
| 1270 | Free of incidents of observed non-compliance not already identified above? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
|------|--|--------------------------|--------------------------|-------------------------------------|

Additional Control Measures

| | | | | |
|------|--|--------------------------|--------------------------|-------------------------------------|
| 1290 | Are permit requirements satisfied with existing control measure(s)? If "No" describe additional control measures needed. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
|------|--|--------------------------|--------------------------|-------------------------------------|

Labor

Labor **Work Date** **Reg Hrs** **OT Hrs** **Other Hrs**

Labor Report

Completed: _____

Report:

Next to the elevated metal rack w/ stairs from the old Asphalt Batch Plant there's two empty 5 gallon containers of Blue - Kat & a 2 gallon hard soper that as a hard logging issue entered into the MSGP tracking database as CAR# 2092.

Leonard F. Sandahl
Signature / Name

4/26/2022 9:32 a.m.
Date

Signature / Name

Date

I confirm the information as recorded is true, accurate and complete.

CERTIFICATION STATEMENT

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information contained therein. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information contained is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

(Signatory must meet definition in Section B.11.A, eg. FOD, Ops Mgr, EPC Group or Team Leader)

Print name and title: DAVID E. TRUJILLO UI-OPS. MANAGER

Signature: D. E. Trujillo

Date: 4-28-22

In front of the trash can bin E. of 60-0250 there's trash on the ground. In the wooded area by the concrete jersey barriers N. of 60-0250 there's windblown trash that includes Tyvek PPE, big pieces of plastic, Card board boxes, & a sheet of plywood. Also next to a white box trailer by the concrete jersey barriers there's a bag of ice melt on the ground. These issues were entered into the MSGP tracking database as CAR# 2093.

Maintenance Details

Requested: 5/2/2022 9:14:00 AM
Procedure: MSGP Routine Facility Inspection (EPC-CP-QP-2108 R0 Form 1)
Last PM: 3/16/2022
Project: Routine Facility Inspections May 2022 (P-MSGP-RI-5575)
Reason: 2022 May Inspections

Target: 5/31/2022
Priority/Type: Normal / Inspection
Department: Utilities and Infrastructure

MSGP Program
 RG200.5
 TA-60 Roads and Grounds

*Temp. 47°F high of 76°F
 Clear / Sunny / Smokey Haze in the air
 Wind - 5 mph
 7:47 a.m.*

Contact:
Phone:

Tasks

| # | Description | Meas. | No | N/A | Yes |
|---|--|-------|--------------------------|--------------------------|-------------------------------------|
| Weather Information | | | | | |
| 20 | Describe the weather at time of inspection and document the temperature (F°). | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Within the Facility Boundary | | | | | |
| 40 | Is the facility free of previously unidentified discharges from and/or pollutants that have occurred since the last inspection If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 50 | If "No" has a CAR been previously initiated for this new discharge? | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 60 | Is the facility free of discharge of pollutants at the time of inspection? If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 70 | Is the facility free of evidence of, or the potential for, pollutants entering the drainage system. If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Outfall Inspection (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant task comment) | | | | | |
| 90 | Monitored Outfall [031] DO: Free of Evidence of Erosion? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 100 | Monitored Outfall [031] DO: Flow Dissipation Devices Operating Effectively? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 110 | Monitored Outfall [031] DO: Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 120 | Monitored Outfall [031] DO: Free of any unauthorized non-stormwater discharges? If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 130 | Monitored Outfall [032] Free of Evidence of Erosion? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 140 | Monitored Outfall [032] Flow Dissipation Devices Operating Effectively? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 150 | Monitored Outfall [032] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 160 | Monitored Outfall [032] Free of any unauthorized non-stormwater discharges? If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 170 | Monitored Outfall [036] Free of Evidence of Erosion? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 180 | Monitored Outfall [036] Flow Dissipation Devices Operating Effectively? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 190 | Monitored Outfall [036] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 200 | Monitored Outfall [036] Free of any unauthorized non-stormwater discharges? If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 210 | Monitored Outfall [037] Free of Evidence of Erosion? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 220 | Monitored Outfall [037] Flow Dissipation Devices Operating Effectively? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 230 | Monitored Outfall [037] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 240 | Monitored Outfall [037] Free of any unauthorized non-stormwater discharges? If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 250 | Monitored Outfall [039] Free of Evidence of Erosion? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

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|-----|--|--------------------------|--------------------------|-------------------------------------|
| 260 | Monitored Outfall [039] Flow Dissipation Devices Operating Effectively? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 270 | Monitored Outfall [039] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 280 | Monitored Outfall [039] Free of any unauthorized non-stormwater discharges? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 290 | Monitored Outfall [042] Free of Evidence of Erosion? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 300 | Monitored Outfall [042] Flow Dissipation Devices Operating Effectively? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 310 | Monitored Outfall [042] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 320 | Monitored Outfall [042] Free of any unauthorized non-stormwater discharges? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 330 | Substantially Identical Outfall [030] Free of Evidence of Erosion? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 340 | Substantially Identical Outfall [030] Flow Dissipation Devices Operating Effectively? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 350 | Substantially Identical Outfall [030] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 360 | Substantially Identical Outfall [030] Free of any unauthorized non-stormwater discharges? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 370 | Substantially Identical Outfall [033] Free of Evidence of Erosion? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 380 | Substantially Identical Outfall [033] Flow Dissipation Devices Operating Effectively? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 390 | Substantially Identical Outfall [033] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 400 | Substantially Identical Outfall [033] Free of any unauthorized non-stormwater discharges? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 410 | Substantially Identical Outfall [034] Free of Evidence of Erosion? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 420 | Substantially Identical Outfall [034] Flow Dissipation Devices Operating Effectively? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 430 | Substantially Identical Outfall [034] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 440 | Substantially Identical Outfall [034] Free of any unauthorized non-stormwater discharges? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 450 | Substantially Identical Outfall [035] Free of Evidence of Erosion? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 460 | Substantially Identical Outfall [035] Flow Dissipation Devices Operating Effectively? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 470 | Substantially Identical Outfall [035] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 480 | Substantially Identical Outfall [035] Free of any unauthorized non-stormwater discharges? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 490 | Substantially Identical Outfall [038] Free of Evidence of Erosion? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 500 | Substantially Identical Outfall [038] Flow Dissipation Devices Operating Effectively? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 510 | Substantially Identical Outfall [038] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 520 | Substantially Identical Outfall [038] Free of any unauthorized non-stormwater discharges? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 530 | Substantially Identical Outfall [040] Free of Evidence of Erosion? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 540 | Substantially Identical Outfall [040] Flow Dissipation Devices Operating Effectively? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 550 | Substantially Identical Outfall [040] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 560 | Substantially Identical Outfall [040] Free of any unauthorized non-stormwater discharges? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 570 | Substantially Identical Outfall [041] Free of Evidence of Erosion? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 580 | Substantially Identical Outfall [041] Flow Dissipation Devices Operating Effectively? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 590 | Substantially Identical Outfall [041] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

600 **Substantially Identical Outfall [041]** Free of any unauthorized non-stormwater discharges? If "No" describe.

Control Measures (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant task comments).

| | | | | |
|-----|--|--------------------------|--------------------------|-------------------------------------|
| 620 | Asphalt Berm [6000303040052] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 630 | Asphalt Berm [6000303040062] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 640 | Asphalt Berm [6000303040097] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 650 | Rock Channel/Swale [6000304030016] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 660 | Rock Channel/Swale [6000304030039] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 670 | Rock Channel/Swale [6000304030040] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 680 | Rock Channel/Swale [6000304030060] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 690 | Rock Channel/Swale [6000304030095] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 700 | Rock Channel/Swale [6000304030096] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 710 | Rip Rap [6000304060011] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 720 | Rip Rap [6000304060014] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 730 | Rip Rap [6000304060022] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 740 | Rip Rap [6000304060025] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 750 | Rip Rap [6000304060026] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 760 | Rip Rap [6000304060027] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 770 | Rip Rap [6000304060029] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 780 | Rip Rap [6000304060032] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 790 | Rip Rap [6000304060033] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 800 | Rip Rap [6000304060066] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 810 | Earthen Berm [6000303010034] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 820 | Earthen Berm [6000303010036] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 830 | Earthen Berm [6000303010037] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 840 | Earthen Berm [6000303010038] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 850 | Earthen Berm [6000303010043] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 860 | Earthen Berm [6000303010075] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 870 | Straw Wattle [6000303060078] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 880 | Sediment Basin [6000305020018] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 890 | Sediment Basin [6000305020041] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 900 | Rock Check Dam [6000306010001] Control Measure is operating effectively? If "No" | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

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| | describe condition & need for Maintenance, Repair, or Replacement. | | | |
| 910 | Rock Check Dam [6000306010002] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 920 | Rock Check Dam [6000306010003] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 930 | Rock Check Dam [6000306010004] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 940 | Rock Check Dam [6000306010008] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 950 | Trench Drain [6000309040057] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 960 | Jersey Barriers [6000303170015] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 970 | EnviroSoxx w/ MetalLoxx [6000303200086] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 980 | EnviroSoxx w/ MetalLoxx [6000303200087] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 990 | EnviroSoxx w/ MetalLoxx [6000303200088] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1000 | EnviroSoxx w/ MetalLoxx [6000303200089] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1010 | EnviroSoxx w/ MetalLoxx [6000303200090] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1020 | EnviroSoxx w/ MetalLoxx [6000303200091] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1030 | EnviroSoxx w/ MetalLoxx [6000303200092] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1040 | EnviroSoxx w/ MetalLoxx [6000303200093] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1050 | EnviroSoxx w/ MetalLoxx [6000303200094] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1060 | Permanent Vegetation Vegetative Buffer Strip [6000302030042] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1070 | TRM-Lined Swale [6000304080061] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Area/Activity exposed to stormwater (identify needed maintenance or a description of corrective actions in relevant task comment).

| | | | | |
|------|--|--------------------------|-------------------------------------|-------------------------------------|
| 1090 | Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1100 | Transfer areas for substances in bulk: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1110 | Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1120 | Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1130 | Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 1140 | Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1150 | Fueling areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1160 | Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 1170 | Machinery: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1180 | Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1190 | Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1200 | Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1210 | Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

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| | operating)? If "No" describe. | | | |
| 1220 | Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1230 | Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1240 | Leaks and spills: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1250 | Sector P [60003-P] Vehicle storage/maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Non-Compliance

| | | | | |
|------|--|--------------------------|--------------------------|-------------------------------------|
| 1270 | Free of incidents of observed non-compliance not already identified above? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
|------|--|--------------------------|--------------------------|-------------------------------------|

Additional Control Measures

| | | | | |
|------|--|--------------------------|--------------------------|-------------------------------------|
| 1290 | Are permit requirements satisfied with existing control measure(s)? If "No" describe additional control measures needed. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
|------|--|--------------------------|--------------------------|-------------------------------------|

Labor

| Labor | Assigned | Work Date | Reg Hrs | OT Hrs | Other Hrs |
|------------------|--------------|-----------|---------|--------|-----------|
| Leonard Sandoval | 5/2/2022 / 1 | | | | |

Labor Report

Completed: _____

Report: *Note: Reached out to Holly Wheeler of EPC-CP because the solar panel on top of the MSGP Sampler at monitor outfall 042 was recently torn off by the wind.*

Leonard F. Sandoval *5/31/2022 9:03 a.m.*
 Signature / Name Date Signature / Name Date

I confirm the information as recorded is true, accurate and complete.

CERTIFICATION STATEMENT

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information contained therein. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information contained is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

(Signatory must meet definition in Section B.11.A, eg. FOD, Ops Mgr, EPC Group or Team Leader)

Print name and title: DAVID E. TRUJILLO UI-OPS MANAGER

Signature: *D. E. Trujillo* Date: 5-31-22

Maintenance Details

Requested: 5/31/2022 4:32:01 PM
Procedure: MSGP Routine Facility Inspection (EPC-CP-QP-2108 R0 Form 1)
Last PM: 4/26/2022
Project: Routine Facility Inspections June 2022 (P-MSGP-RI-5580)
Reason: 2022 June Inspections

Target: 6/30/2022
Priority/Type: Normal / Inspection
Department: Utilities and Infrastructure

MSGP Program
 RG200.5
 TA-60 Roads and Grounds

*6/27/2022 Temp. 50°F / High of 61°F
 Cloudy w/ 90% chance of Rain - Light drizzle / Rain during inspection
 Wind - S to 10 mph
 8:47 a.m.*

Tasks

| # | Description | Meas. | No | N/A | Yes |
|---|--|-------|--------------------------|-------------------------------------|-------------------------------------|
| Weather Information | | | | | |
| 20 | Describe the weather at time of inspection and document the temperature (F°). | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Within the Facility Boundary | | | | | |
| 40 | Is the facility free of previously unidentified discharges from and/or pollutants that have occurred since the last inspection If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 50 | If "No" has a CAR been previously initiated for this new discharge? | | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 60 | Is the facility free of discharge of pollutants at the time of inspection? If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 70 | Is the facility free of evidence of, or the potential for, pollutants entering the drainage system. If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Outfall Inspection (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant task comment) | | | | | |
| 90 | Monitored Outfall [031] DO: Free of Evidence of Erosion? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 100 | Monitored Outfall [031] DO: Flow Dissipation Devices Operating Effectively? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 110 | Monitored Outfall [031] DO: Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 120 | Monitored Outfall [031] DO: Free of any unauthorized non-stormwater discharges? If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 130 | Monitored Outfall [032] Free of Evidence of Erosion? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 140 | Monitored Outfall [032] Flow Dissipation Devices Operating Effectively? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 150 | Monitored Outfall [032] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 160 | Monitored Outfall [032] Free of any unauthorized non-stormwater discharges? If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 170 | Monitored Outfall [036] Free of Evidence of Erosion? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 180 | Monitored Outfall [036] Flow Dissipation Devices Operating Effectively? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 190 | Monitored Outfall [036] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 200 | Monitored Outfall [036] Free of any unauthorized non-stormwater discharges? If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 210 | Monitored Outfall [037] Free of Evidence of Erosion? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 220 | Monitored Outfall [037] Flow Dissipation Devices Operating Effectively? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 230 | Monitored Outfall [037] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 240 | Monitored Outfall [037] Free of any unauthorized non-stormwater discharges? If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

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|-----|--|--------------------------|--------------------------|-------------------------------------|
| 250 | Monitored Outfall [039] Free of Evidence of Erosion? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 260 | Monitored Outfall [039] Flow Dissipation Devices Operating Effectively? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 270 | Monitored Outfall [039] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 280 | Monitored Outfall [039] Free of any unauthorized non-stormwater discharges? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 290 | Monitored Outfall [042] Free of Evidence of Erosion? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 300 | Monitored Outfall [042] Flow Dissipation Devices Operating Effectively? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 310 | Monitored Outfall [042] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 320 | Monitored Outfall [042] Free of any unauthorized non-stormwater discharges? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 330 | Substantially Identical Outfall [030] Free of Evidence of Erosion? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 340 | Substantially Identical Outfall [030] Flow Dissipation Devices Operating Effectively? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 350 | Substantially Identical Outfall [030] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 360 | Substantially Identical Outfall [030] Free of any unauthorized non-stormwater discharges? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 370 | Substantially Identical Outfall [033] Free of Evidence of Erosion? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 380 | Substantially Identical Outfall [033] Flow Dissipation Devices Operating Effectively? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 390 | Substantially Identical Outfall [033] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 400 | Substantially Identical Outfall [033] Free of any unauthorized non-stormwater discharges? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 410 | Substantially Identical Outfall [034] Free of Evidence of Erosion? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 420 | Substantially Identical Outfall [034] Flow Dissipation Devices Operating Effectively? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 430 | Substantially Identical Outfall [034] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 440 | Substantially Identical Outfall [034] Free of any unauthorized non-stormwater discharges? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 450 | Substantially Identical Outfall [035] Free of Evidence of Erosion? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 460 | Substantially Identical Outfall [035] Flow Dissipation Devices Operating Effectively? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 470 | Substantially Identical Outfall [035] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 480 | Substantially Identical Outfall [035] Free of any unauthorized non-stormwater discharges? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 490 | Substantially Identical Outfall [038] Free of Evidence of Erosion? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 500 | Substantially Identical Outfall [038] Flow Dissipation Devices Operating Effectively? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 510 | Substantially Identical Outfall [038] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 520 | Substantially Identical Outfall [038] Free of any unauthorized non-stormwater discharges? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 530 | Substantially Identical Outfall [040] Free of Evidence of Erosion? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 540 | Substantially Identical Outfall [040] Flow Dissipation Devices Operating Effectively? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 550 | Substantially Identical Outfall [040] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 560 | Substantially Identical Outfall [040] Free of any unauthorized non-stormwater discharges? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 570 | Substantially Identical Outfall [041] Free of Evidence of Erosion? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 580 | Substantially Identical Outfall [041] Flow Dissipation Devices Operating Effectively? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 590 | Substantially Identical Outfall [041] Free of Evidence of Pollutants in Discharges and/or | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Receiving Water? If "No", describe.

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|---|--|--------------------------|--------------------------|-------------------------------------|
| 600 | Substantially Identical Outfall [041] Free of any unauthorized non-stormwater discharges? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Control Measures (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant task comments). | | | | |
| 620 | Asphalt Berm [6000303040052] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 630 | Asphalt Berm [6000303040062] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 640 | Asphalt Berm [6000303040097] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 650 | Rock Channel/Swale [6000304030016] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 660 | Rock Channel/Swale [6000304030039] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 670 | Rock Channel/Swale [6000304030040] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 680 | Rock Channel/Swale [6000304030060] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 690 | Rock Channel/Swale [6000304030095] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 700 | Rock Channel/Swale [6000304030096] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 710 | Rip Rap [6000304060011] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 720 | Rip Rap [6000304060014] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 730 | Rip Rap [6000304060022] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 740 | Rip Rap [6000304060025] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 750 | Rip Rap [6000304060026] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 760 | Rip Rap [6000304060027] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 770 | Rip Rap [6000304060029] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 780 | Rip Rap [6000304060032] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 790 | Rip Rap [6000304060033] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 800 | Rip Rap [6000304060066] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 810 | Earthen Berm [6000303010034] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 820 | Earthen Berm [6000303010036] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 830 | Earthen Berm [6000303010037] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 840 | Earthen Berm [6000303010038] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 850 | Earthen Berm [6000303010043] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 860 | Earthen Berm [6000303010075] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 870 | Straw Wattle [6000303060078] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 880 | Sediment Basin [6000305020018] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 890 | Sediment Basin [6000305020041] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

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| 900 | Rock Check Dam [6000306010001] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 910 | Rock Check Dam [6000306010002] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 920 | Rock Check Dam [6000306010003] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 930 | Rock Check Dam [6000306010004] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 940 | Rock Check Dam [6000306010008] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 950 | Trench Drain [6000309040057] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 960 | Jersey Barriers [6000303170015] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 970 | EnviroSoxx w/ MetalLoxx [6000303200086] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 980 | EnviroSoxx w/ MetalLoxx [6000303200087] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 990 | EnviroSoxx w/ MetalLoxx [6000303200088] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1000 | EnviroSoxx w/ MetalLoxx [6000303200089] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1010 | EnviroSoxx w/ MetalLoxx [6000303200090] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1020 | EnviroSoxx w/ MetalLoxx [6000303200091] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1030 | EnviroSoxx w/ MetalLoxx [6000303200092] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1040 | EnviroSoxx w/ MetalLoxx [6000303200093] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1050 | EnviroSoxx w/ MetalLoxx [6000303200094] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1060 | Permanent Vegetation Vegetative Buffer Strip [6000302030042] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1070 | TRM-Lined Swale [6000304080061] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Area/Activity exposed to stormwater (identify needed maintenance or a description of corrective actions in relevant task comment).

| | | | | |
|------|--|--------------------------|-------------------------------------|-------------------------------------|
| 1090 | Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1100 | Transfer areas for substances in bulk: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1110 | Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1120 | Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1130 | Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 1140 | Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1150 | Fueling areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1160 | Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 1170 | Machinery: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1180 | Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1190 | Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1200 | Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

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| 1210 | Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1220 | Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1230 | Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1240 | Leaks and spills: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1250 | Sector P [60003-P] Vehicle storage/maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Non-Compliance | | | | |
| 1270 | Free of incidents of observed non-compliance not already identified above? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Additional Control Measures | | | | |
| 1290 | Are permit requirements satisfied with existing control measure(s)? If "No" describe additional control measures needed. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

| Labor | | | | | |
|------------------|---------------|-----------|---------|--------|-----------|
| Labor | Assigned | Work Date | Reg Hrs | OT Hrs | Other Hrs |
| Leonard Sandoval | 5/31/2022 / 1 | | | | |

Labor Report

Completed: _____

Report:
 In front of transportainer 60-0287 there's a pallet of 5 gallon buckets of hardened STO w/ 2 buckets that are missing lids & entered into the MSGP tracking database as CAR# 2110.

 Signature / Name Date: 6/27/2022 2:58 a.m.

I confirm the information as recorded is true, accurate and complete.

CERTIFICATION STATEMENT

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information contained therein. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information contained is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

(Signatory must meet definition in Section B.11.A, eg. FOD, Ops Mgr, EPC Group or Team Leader)

Print name and title: DAVID S. TEWILLO UI-OPS. MANAGER

Signature: D. S. Tewillo Date: 7-1-22

South of Salt shed 60-0178 & parallel to Eniwetok Rd there's erosion on the side of a berm & entered into the MSGP tracking as CAR# 2111.

Maintenance Details

Requested: 6/30/2022 1:57:00 PM **Target:** 7/31/2022 MSGP Program
Procedure: MSGP Routine Facility Inspection (EPC-CP-QP-2108 R0 Form 1) **Priority/Type:** Normal / Inspection RG200.5
Last PM: 6/27/2022 **Department:** Utilities and Infrastructure TA-60 Roads and Grounds
Project: Routine Facility Inspections July 2022 (P-MSGP-RI-5588) **Contact:** **Phone:**

*Temp. 62°F / High of 81°F
Clear / Sunny
40% Chance of rain
Wind - Less than 5 mph
8:00 a.m.*

Reason: 2022 July Inspections

Tasks

| # | Description | Meas. | No | N/A | Yes |
|---|--|-------|--------------------------|-------------------------------------|-------------------------------------|
| Weather Information | | | | | |
| 20 | Describe the weather at time of inspection and document the temperature (F°). | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Within the Facility Boundary | | | | | |
| 40 | Is the facility free of previously unidentified discharges from and/or pollutants that have occurred since the last inspection If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 50 | If "No" has a CAR been previously initiated for this new discharge? | | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 60 | Is the facility free of discharge of pollutants at the time of inspection? If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 70 | Is the facility free of evidence of, or the potential for, pollutants entering the drainage system. If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Outfall Inspection (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant task comment) | | | | | |
| 90 | Monitored Outfall [031] DO: Free of Evidence of Erosion? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 100 | Monitored Outfall [031] DO: Flow Dissipation Devices Operating Effectively? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 110 | Monitored Outfall [031] DO: Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 120 | Monitored Outfall [031] DO: Free of any unauthorized non-stormwater discharges? If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 130 | Monitored Outfall [032] Free of Evidence of Erosion? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 140 | Monitored Outfall [032] Flow Dissipation Devices Operating Effectively? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 150 | Monitored Outfall [032] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 160 | Monitored Outfall [032] Free of any unauthorized non-stormwater discharges? If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 170 | Monitored Outfall [036] Free of Evidence of Erosion? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 180 | Monitored Outfall [036] Flow Dissipation Devices Operating Effectively? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 190 | Monitored Outfall [036] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 200 | Monitored Outfall [036] Free of any unauthorized non-stormwater discharges? If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 210 | Monitored Outfall [037] Free of Evidence of Erosion? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 220 | Monitored Outfall [037] Flow Dissipation Devices Operating Effectively? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 230 | Monitored Outfall [037] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 240 | Monitored Outfall [037] Free of any unauthorized non-stormwater discharges? If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 250 | Monitored Outfall [039] Free of Evidence of Erosion? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

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|-----|--|--------------------------|--------------------------|-------------------------------------|
| 260 | Monitored Outfall [039] Flow Dissipation Devices Operating Effectively? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 270 | Monitored Outfall [039] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 280 | Monitored Outfall [039] Free of any unauthorized non-stormwater discharges? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 290 | Monitored Outfall [042] Free of Evidence of Erosion? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 300 | Monitored Outfall [042] Flow Dissipation Devices Operating Effectively? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 310 | Monitored Outfall [042] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 320 | Monitored Outfall [042] Free of any unauthorized non-stormwater discharges? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 330 | Substantially Identical Outfall [030] Free of Evidence of Erosion? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 340 | Substantially Identical Outfall [030] Flow Dissipation Devices Operating Effectively? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 350 | Substantially Identical Outfall [030] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 360 | Substantially Identical Outfall [030] Free of any unauthorized non-stormwater discharges? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 370 | Substantially Identical Outfall [033] Free of Evidence of Erosion? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 380 | Substantially Identical Outfall [033] Flow Dissipation Devices Operating Effectively? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 390 | Substantially Identical Outfall [033] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 400 | Substantially Identical Outfall [033] Free of any unauthorized non-stormwater discharges? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 410 | Substantially Identical Outfall [034] Free of Evidence of Erosion? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 420 | Substantially Identical Outfall [034] Flow Dissipation Devices Operating Effectively? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 430 | Substantially Identical Outfall [034] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 440 | Substantially Identical Outfall [034] Free of any unauthorized non-stormwater discharges? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 450 | Substantially Identical Outfall [035] Free of Evidence of Erosion? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 460 | Substantially Identical Outfall [035] Flow Dissipation Devices Operating Effectively? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 470 | Substantially Identical Outfall [035] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 480 | Substantially Identical Outfall [035] Free of any unauthorized non-stormwater discharges? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 490 | Substantially Identical Outfall [038] Free of Evidence of Erosion? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 500 | Substantially Identical Outfall [038] Flow Dissipation Devices Operating Effectively? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 510 | Substantially Identical Outfall [038] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 520 | Substantially Identical Outfall [038] Free of any unauthorized non-stormwater discharges? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 530 | Substantially Identical Outfall [040] Free of Evidence of Erosion? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 540 | Substantially Identical Outfall [040] Flow Dissipation Devices Operating Effectively? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 550 | Substantially Identical Outfall [040] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 560 | Substantially Identical Outfall [040] Free of any unauthorized non-stormwater discharges? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 570 | Substantially Identical Outfall [041] Free of Evidence of Erosion? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 580 | Substantially Identical Outfall [041] Flow Dissipation Devices Operating Effectively? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 590 | Substantially Identical Outfall [041] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

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| 600 | Substantially Identical Outfall [041] Free of any unauthorized non-stormwater discharges? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
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Control Measures (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant task comments).

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|-----|--|--------------------------|--------------------------|-------------------------------------|
| 620 | Asphalt Berm [6000303040052] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 630 | Asphalt Berm [6000303040062] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 640 | Asphalt Berm [6000303040097] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 650 | Rock Channel/Swale [6000304030016] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 660 | Rock Channel/Swale [6000304030039] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 670 | Rock Channel/Swale [6000304030040] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 680 | Rock Channel/Swale [6000304030060] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 690 | Rock Channel/Swale [6000304030095] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 700 | Rock Channel/Swale [6000304030096] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 710 | Rip Rap [6000304060011] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 720 | Rip Rap [6000304060014] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 730 | Rip Rap [6000304060022] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 740 | Rip Rap [6000304060025] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 750 | Rip Rap [6000304060026] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 760 | Rip Rap [6000304060027] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 770 | Rip Rap [6000304060029] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 780 | Rip Rap [6000304060032] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 790 | Rip Rap [6000304060033] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 800 | Rip Rap [6000304060066] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 810 | Earthen Berm [6000303010034] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 820 | Earthen Berm [6000303010036] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 830 | Earthen Berm [6000303010037] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 840 | Earthen Berm [6000303010038] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 850 | Earthen Berm [6000303010043] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 860 | Earthen Berm [6000303010075] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 870 | Straw Wattle [6000303060078] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 880 | Sediment Basin [6000305020018] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 890 | Sediment Basin [6000305020041] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

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|------|--|--------------------------|--------------------------|-------------------------------------|
| 900 | Rock Check Dam [6000306010001] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | | | |
| 910 | Rock Check Dam [6000306010002] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 920 | Rock Check Dam [6000306010003] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 930 | Rock Check Dam [6000306010004] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 940 | Rock Check Dam [6000306010008] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 950 | Trench Drain [6000309040057] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 960 | Jersey Barriers [6000303170015] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 970 | EnviroSoxx w/ MetalLoxx [6000303200086] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 980 | EnviroSoxx w/ MetalLoxx [6000303200087] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 990 | EnviroSoxx w/ MetalLoxx [6000303200088] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1000 | EnviroSoxx w/ MetalLoxx [6000303200089] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1010 | EnviroSoxx w/ MetalLoxx [6000303200090] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1020 | EnviroSoxx w/ MetalLoxx [6000303200091] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1030 | EnviroSoxx w/ MetalLoxx [6000303200092] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1040 | EnviroSoxx w/ MetalLoxx [6000303200093] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1050 | EnviroSoxx w/ MetalLoxx [6000303200094] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1060 | Permanent Vegetation Vegetative Buffer Strip [6000302030042] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1070 | TRM-Lined Swale [6000304080061] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Area/Activity exposed to stormwater (identify needed maintenance or a description of corrective actions in relevant task comment).

| | | | | |
|------|--|--------------------------|-------------------------------------|-------------------------------------|
| 1090 | Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1100 | Transfer areas for substances in bulk: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1110 | Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1120 | Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1130 | Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 1140 | Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1150 | Fueling areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1160 | Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 1170 | Machinery: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1180 | Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1190 | Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

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| 1200 | Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If "No" describe. | | | |
| 1210 | Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1220 | Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1230 | Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If "No" describe. <i>Refer to Labor Report</i> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1240 | Leaks and spills: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1250 | Sector P [60003-P] Vehicle storage/maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Non-Compliance | | | | |
| 1270 | Free of incidents of observed non-compliance not already identified above? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Additional Control Measures | | | | |
| 1290 | Are permit requirements satisfied with existing control measure(s)? If "No" describe additional control measures needed. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Labor

| Labor | Assigned | Work Date | Reg Hrs | OT Hrs | Other Hrs |
|------------------|---------------|-----------|---------|--------|-----------|
| Leonard Sandoval | 6/30/2022 / 1 | | | | |

Labor Report

Completed: _____

Report:

At R4G West / TA-60-0250 there's broken pieces of wood, wood pallets, pieces of metal, PVC, broken shovels, plastic, & wiped blank Gatorade & water bottles that as a housekeeping issue & entered into the MSGP tracking database as CAR# 2185.

Leonard F. Sandoval 7/25/2022 7:30 a.m.

 Signature / Name Date Signature / Name Date

I confirm the information as recorded is true, accurate and complete.

CERTIFICATION STATEMENT

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information contained therein. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information contained is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

(Signatory must meet definition in Section B.11.A, eg. FOD, Ops Mgr, EPC Group or Team Leader)

Print name and title: DAVID E. TRUJILLO OPS. MGR.

Signature: *D. E. Trujillo* Date: 7-27-22

Maintenance Details

Requested: 8/16/2022 2:19:00 PM

Target: 8/31/2022

MSGP Program

Procedure: MSGP Routine Facility Inspection (EPC-CP-QP-2108 R0 Form 1)

Priority/Type: / Inspection

RG200.5

Department: Utilities and Infrastructure

TA-60 Roads and Grounds

Last PM: 7/25/2022 *8/29/2022*
Project: ISCO Sampler Inspections wk 3/28/22 (P-MSGP-5564)

*Temp. 55°F High of 79°F
Clear / Sunny
Wind - 5 to 10 mph
7:42 p.m.*

Contact:
Phone:

Reason: 2022 August Inspections

Tasks

| # | Description | Meas. | No | N/A | Yes |
|---|--|-------|--------------------------|-------------------------------------|-------------------------------------|
| Weather Information | | | | | |
| 20 | Describe the weather at time of inspection and document the temperature (F°). | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Within the Facility Boundary | | | | | |
| 40 | Is the facility free of previously unidentified discharges from and/or pollutants that have occurred since the last inspection If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 50 | If "No" has a CAR been previously initiated for this new discharge? | | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 60 | Is the facility free of discharge of pollutants at the time of inspection? If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 70 | Is the facility free of evidence of, or the potential for, pollutants entering the drainage system. If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Outfall Inspection (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant task comment) | | | | | |
| 90 | Monitored Outfall [031] Free of Evidence of Erosion? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 100 | Monitored Outfall [031] Flow Dissipation Devices Operating Effectively? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 110 | Monitored Outfall [031] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 120 | Monitored Outfall [031] Free of any unauthorized non-stormwater discharges? If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 130 | Monitored Outfall [032] Free of Evidence of Erosion? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 140 | Monitored Outfall [032] Flow Dissipation Devices Operating Effectively? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 150 | Monitored Outfall [032] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 160 | Monitored Outfall [032] Free of any unauthorized non-stormwater discharges? If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 170 | Monitored Outfall [037] Free of Evidence of Erosion? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 180 | Monitored Outfall [037] Flow Dissipation Devices Operating Effectively? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 190 | Monitored Outfall [037] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 200 | Monitored Outfall [037] Free of any unauthorized non-stormwater discharges? If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 210 | Monitored Outfall [042] Free of Evidence of Erosion? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 220 | Monitored Outfall [042] Flow Dissipation Devices Operating Effectively? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 230 | Monitored Outfall [042] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 240 | Monitored Outfall [042] Free of any unauthorized non-stormwater discharges? If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 250 | Monitored Outfall [084] Free of Evidence of Erosion? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

| | | | | |
|---|---|--------------------------|--------------------------|-------------------------------------|
| 260 | Monitored Outfall [084] Flow Dissipation Devices Operating Effectively? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 270 | Monitored Outfall [084] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 280 | Monitored Outfall [084] Free of any unauthorized non-stormwater discharges? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 290 | Substantially Identical Outfall [030] Free of Evidence of Erosion? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 300 | Substantially Identical Outfall [030] Flow Dissipation Devices Operating Effectively? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 310 | Substantially Identical Outfall [030] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 320 | Substantially Identical Outfall [030] Free of any unauthorized non-stormwater discharges? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 330 | Substantially Identical Outfall [033] Free of Evidence of Erosion? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 340 | Substantially Identical Outfall [033] Flow Dissipation Devices Operating Effectively? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 350 | Substantially Identical Outfall [033] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 360 | Substantially Identical Outfall [033] Free of any unauthorized non-stormwater discharges? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 370 | Substantially Identical Outfall [034] Free of Evidence of Erosion? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 380 | Substantially Identical Outfall [034] Flow Dissipation Devices Operating Effectively? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 390 | Substantially Identical Outfall [034] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 400 | Substantially Identical Outfall [034] Free of any unauthorized non-stormwater discharges? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 410 | Substantially Identical Outfall [035] Free of Evidence of Erosion? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 420 | Substantially Identical Outfall [035] Flow Dissipation Devices Operating Effectively? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 430 | Substantially Identical Outfall [035] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 440 | Substantially Identical Outfall [035] Free of any unauthorized non-stormwater discharges? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Control Measures (Identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant task comments). | | | | |
| 460 | Asphalt Berm [6000303040052] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 470 | Asphalt Berm [6000303040062] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 480 | Asphalt Berm [6000303040097] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 490 | Rock Channel/Swale [6000304030016] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 500 | Rock Channel/Swale [6000304030039] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 510 | Rock Channel/Swale [6000304030040] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 520 | Rock Channel/Swale [6000304030060] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 530 | Rock Channel/Swale [6000304030095] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 540 | Rock Channel/Swale [6000304030096] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 550 | Erosion Control Blanket [6000301060099] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 560 | Rip Rap [6000304060011] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 570 | Rip Rap [6000304060014] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

"No" describe condition & need for Maintenance, Repair, or Replacement.

| | | | | |
|-----|---|--------------------------|--------------------------|-------------------------------------|
| 890 | Permanent Vegetation Vegetative Buffer Strip [6000302030042] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 900 | TRM-Lined Swale [6000304080061] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Area/Activity exposed to stormwater (identify needed maintenance or a description of corrective actions in relevant task comment).

| | | | | |
|------|---|-------------------------------------|-------------------------------------|-------------------------------------|
| 920 | Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 930 | Transfer areas for substances in bulk: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 940 | Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 950 | Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 960 | Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 970 | Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 980 | Fueling areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 990 | Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 1000 | Machinery: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1010 | Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1020 | Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1030 | Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1040 | Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1050 | Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1060 | Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If "No" describe. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 1070 | Leaks and spills: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 1080 | Sector P [60003-P] Vehicle storage/maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Non-Compliance

| | | | | |
|------|--|--------------------------|--------------------------|-------------------------------------|
| 1100 | Free of incidents of observed non-compliance not already identified above? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
|------|--|--------------------------|--------------------------|-------------------------------------|

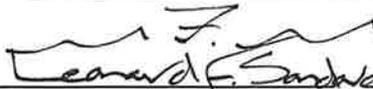
Additional Control Measures

| | | | | |
|------|--|--------------------------|--------------------------|-------------------------------------|
| 1120 | Are permit requirements satisfied with existing control measure(s)? If "No" describe additional control measures needed. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
|------|--|--------------------------|--------------------------|-------------------------------------|

Labor Report

Completed: _____

Report: Leonard Sandoval, DEP


Leonard F. Sandoval 8/29/2022 9:15 a.m.

Signature / Name

Date

Signature / Name

Date

I confirm the information as recorded is true, accurate and complete.

CERTIFICATION STATEMENT

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information contained therein. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information contained is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

(Signatory must meet definition in Section B.11.A, eg. FOD, Ops Mgr, EPC Group or Team Leader)

Print name and title: DAVID E. TRUJILLO OPS-MGR, UI-OPS

Signature:  Date: 8-31-22

One of the concrete washouts on the paved area N. of the Asphalt Batch Plant on Sigma Mesgr's leaking water & the other one has dried concrete in front of it and entered into the MSGP tracking database as CAR# 2136.

A trash bin in the heavy equipment staging area W. of Salt shed 60-0118 has several torn bags of trash on the ground that appear to have been pulled out by a bear & entered into the MSGP tracking database as CAR# 2138.

In the temporary staging area SAME'S contractor is using S. of Salt shed 60-0118 there is a wood only bin w/ wood & trash that is not covered & a porta john that is not anchored to the ground & entered into the MSGP tracking database as CAR# 2137.

Maintenance Details

Requested: 9/1/2022 8:52:19 AM
Procedure: MSGP Routine Facility Inspection (EPC-CP-QP-2108 R0 Form 1)
Last PM: 7/25/2022
Project: Routine Facility Inspections September 2022 (P-MSGP-RI-5599)
Reason: 2022 September Inspections

Target: 9/30/2022
Priority/Type: Normal / Inspection
Department: Utilities and Infrastructure

MSGP Program
 RG200.5
 TA-60 Roads and Grounds

*Temp. 52°F / High of 73°F
 Fair to Partly Cloudy
 45-50% Chance of Rain
 Wind - S to 10 mph
 8:10 a.m.*

Contact:
Phone:

Tasks

| # | Description | Meas. | No | N/A | Yes |
|---|--|-------|--------------------------|-------------------------------------|-------------------------------------|
| Weather Information | | | | | |
| 20 | Describe the weather at time of inspection and document the temperature (F°). | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Within the Facility Boundary | | | | | |
| 40 | Is the facility free of previously unidentified discharges from and/or pollutants that have occurred since the last inspection If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 50 | If "No" has a CAR been previously initiated for this new discharge? | | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 60 | Is the facility free of discharge of pollutants at the time of inspection? If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 70 | Is the facility free of evidence of, or the potential for, pollutants entering the drainage system. If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Outfall Inspection (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant task comment) | | | | | |
| 90 | Monitored Outfall [031] Free of Evidence of Erosion? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 100 | Monitored Outfall [031] Flow Dissipation Devices Operating Effectively? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 110 | Monitored Outfall [031] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 120 | Monitored Outfall [031] Free of any unauthorized non-stormwater discharges? If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 130 | Monitored Outfall [032] Free of Evidence of Erosion? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 140 | Monitored Outfall [032] Flow Dissipation Devices Operating Effectively? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 150 | Monitored Outfall [032] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 160 | Monitored Outfall [032] Free of any unauthorized non-stormwater discharges? If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 170 | Monitored Outfall [037] Free of Evidence of Erosion? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 180 | Monitored Outfall [037] Flow Dissipation Devices Operating Effectively? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 190 | Monitored Outfall [037] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 200 | Monitored Outfall [037] Free of any unauthorized non-stormwater discharges? If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 210 | Monitored Outfall [042] Free of Evidence of Erosion? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 220 | Monitored Outfall [042] Flow Dissipation Devices Operating Effectively? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 230 | Monitored Outfall [042] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 240 | Monitored Outfall [042] Free of any unauthorized non-stormwater discharges? If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

| | | | | |
|-----|--|--------------------------|--------------------------|-------------------------------------|
| 250 | Monitored Outfall [084] Free of Evidence of Erosion? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 260 | Monitored Outfall [084] Flow Dissipation Devices Operating Effectively? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 270 | Monitored Outfall [084] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 280 | Monitored Outfall [084] Free of any unauthorized non-stormwater discharges? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 290 | Substantially Identical Discharge Point [030] Free of Evidence of Erosion? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 300 | Substantially Identical Discharge Point [030] Flow Dissipation Devices Operating Effectively? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 310 | Substantially Identical Discharge Point [030] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 320 | Substantially Identical Discharge Point [030] Free of any unauthorized non-stormwater discharges? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 330 | Substantially Identical Discharge Point [033] Free of Evidence of Erosion? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 340 | Substantially Identical Discharge Point [033] Flow Dissipation Devices Operating Effectively? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 350 | Substantially Identical Discharge Point [033] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 360 | Substantially Identical Discharge Point [033] Free of any unauthorized non-stormwater discharges? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 370 | Substantially Identical Discharge Point [034] Free of Evidence of Erosion? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 380 | Substantially Identical Discharge Point [034] Flow Dissipation Devices Operating Effectively? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 390 | Substantially Identical Discharge Point [034] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 400 | Substantially Identical Discharge Point [034] Free of any unauthorized non-stormwater discharges? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 410 | Substantially Identical Discharge Point [035] Free of Evidence of Erosion? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 420 | Substantially Identical Discharge Point [035] Flow Dissipation Devices Operating Effectively? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 430 | Substantially Identical Discharge Point [035] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 440 | Substantially Identical Discharge Point [035] Free of any unauthorized non-stormwater discharges? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Control Measures (identify needed maintenance and repairs, failed control measures that need replacment, or a description of corrective actions in relevant task comments).

| | | | | |
|-----|--|--------------------------|--------------------------|-------------------------------------|
| 460 | Asphalt Berm [6000303040052] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 470 | Asphalt Berm [6000303040062] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 480 | Asphalt Berm [6000303040097] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 490 | Rock Channel/Swale [6000304030016] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 500 | Rock Channel/Swale [6000304030039] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 510 | Rock Channel/Swale [6000304030040] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 520 | Rock Channel/Swale [6000304030060] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 530 | Rock Channel/Swale [6000304030095] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 540 | Rock Channel/Swale [6000304030096] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 550 | Erosion Control Blanket [6000301060099] Control Measure is operating effectively? If | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

| | "No" describe condition & need for Maintenance, Repair, or Replacement. | | | |
|-----|---|--------------------------|--------------------------|-------------------------------------|
| 560 | Rip Rap [6000304060011] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 570 | Rip Rap [6000304060014] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 580 | Rip Rap [6000304060022] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 590 | Rip Rap [6000304060025] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 600 | Rip Rap [6000304060026] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 610 | Rip Rap [6000304060027] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 620 | Rip Rap [6000304060029] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 630 | Rip Rap [6000304060033] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 640 | Rip Rap [6000304060066] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 650 | Rip Rap [6000304060098] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 660 | Earthen Berm [6000303010034] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 670 | Earthen Berm [6000303010036] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 680 | Earthen Berm [6000303010037] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 690 | Earthen Berm [6000303010038] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 700 | Earthen Berm [6000303010043] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 710 | Earthen Berm [6000303010075] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 720 | Straw Wattle [6000303060078] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 730 | Sediment Basin [6000305020018] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 740 | Sediment Basin [6000305020041] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 750 | Rock Check Dam [6000306010001] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 760 | Rock Check Dam [6000306010002] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 770 | Rock Check Dam [6000306010003] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 780 | Rock Check Dam [6000306010004] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 790 | Trench Drain [6000309040057] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 800 | Jersey Barriers [6000303170015] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 810 | EnviroSoxx w/ MetalLoxx [6000303200086] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 820 | EnviroSoxx w/ MetalLoxx [6000303200087] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 830 | EnviroSoxx w/ MetalLoxx [6000303200089] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 840 | EnviroSoxx w/ MetalLoxx [6000303200090] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 850 | EnviroSoxx w/ MetalLoxx [6000303200091] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

| | | | | |
|-----|--|--------------------------|--------------------------|-------------------------------------|
| 860 | EnviroSoxx w/ MetalLoxx [6000303200092] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 870 | EnviroSoxx w/ MetalLoxx [6000303200093] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 880 | EnviroSoxx w/ MetalLoxx [6000303200094] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 890 | Permanent Vegetation Vegetative Buffer Strip [6000302030042] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 900 | TRM-Lined Swale [6000304080061] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Area/Activity exposed to stormwater (identify needed maintenance or a description of corrective actions in relevant task comment).

| | | | | |
|------|---|--------------------------|-------------------------------------|-------------------------------------|
| 920 | Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 930 | Transfer areas for substances in bulk: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 940 | Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 950 | Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 960 | Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 970 | Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 980 | Fueling areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 990 | Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 1000 | Machinery: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1010 | Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1020 | Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1030 | Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1040 | Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1050 | Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1060 | Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1070 | Leaks and spills: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1080 | Sector P [60003-P] Vehicle storage/maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Non-Compliance

| | | | | |
|------|--|--------------------------|--------------------------|-------------------------------------|
| 1100 | Free of incidents of observed non-compliance not already identified above? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
|------|--|--------------------------|--------------------------|-------------------------------------|

Additional Control Measures

| | | | | |
|------|--|--------------------------|--------------------------|-------------------------------------|
| 1120 | Are permit requirements satisfied with existing control measure(s)? If "No" describe additional control measures needed. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
|------|--|--------------------------|--------------------------|-------------------------------------|

Labor

| Labor | Assigned | Work Date | Reg Hrs | OT Hrs | Other Hrs |
|------------------|--------------|-----------|---------|--------|-----------|
| Leonard Sandoval | 9/1/2022 / 1 | | | | |

Labor Report

Completed: _____

Report:

David F. Trevillo
Signature / Name

9/22/2022 9:45am
Date

Signature / Name

Date

I confirm the information as recorded is true, accurate and complete.

CERTIFICATION STATEMENT

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information contained therein. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information contained is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

(Signatory must meet definition in Section B.11.A, eg. FOD, Ops Mgr, EPC Group or Team Leader)

Print name and title: DAVID TRUVILLO UI-OPS. MGR.

Signature: *D Trevillo* Date: 9-27-22

Notes: Western Disposal is scheduled to pickup one of the concrete Washbats that is full today.
In the staging area south of Salt Shed 60-078, SAMES Contractor has twenty 275 gallon totes of stripping paint.

Maintenance Details

Requested: 9/29/2022 3:52:00 PM
Procedure: MSGP Routine Facility Inspection (EPC-CP-QP-2108 R0 Form 1)
Last PM: 8/29/2022
Project: Routine Facility Inspections October 2022 (P-MSGP-RI-5602)
Reason: MSGP Routine Facility Inspection

Target: 10/31/2022
Priority/Type: Normal / Inspection
Department: Utilities and Infrastructure

MSGP Program
 RG200.5
 TA-60 Roads and Grounds

*10/20/2022 Temp. 44°F High of 66°F
 Clear/Sunny
 Wind - Less than 5 mph
 7:46 a.m.*

Contact:
Phone:

Tasks

| # | Description | Meas. | No | N/A | Yes |
|---|--|-------|--------------------------|-------------------------------------|-------------------------------------|
| Weather Information | | | | | |
| 20 | Describe the weather at time of inspection and document the temperature (F°). | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Within the Facility Boundary | | | | | |
| 40 | Is the facility free of previously unidentified discharges from and/or pollutants that have occurred since the last inspection If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 50 | If "No" has a CAR been previously initiated for this new discharge? | | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 60 | Is the facility free of discharge of pollutants at the time of inspection? If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 70 | Is the facility free of evidence of, or the potential for, pollutants entering the drainage system. If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Outfall Inspection (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant task comment) | | | | | |
| 90 | Monitored Outfall [031] Free of Evidence of Erosion? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 100 | Monitored Outfall [031] Flow Dissipation Devices Operating Effectively? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 110 | Monitored Outfall [031] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 120 | Monitored Outfall [031] Free of any unauthorized non-stormwater discharges? If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 130 | Monitored Outfall [032] Free of Evidence of Erosion? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 140 | Monitored Outfall [032] Flow Dissipation Devices Operating Effectively? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 150 | Monitored Outfall [032] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 160 | Monitored Outfall [032] Free of any unauthorized non-stormwater discharges? If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 170 | Monitored Outfall [037] Free of Evidence of Erosion? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 180 | Monitored Outfall [037] Flow Dissipation Devices Operating Effectively? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 190 | Monitored Outfall [037] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 200 | Monitored Outfall [037] Free of any unauthorized non-stormwater discharges? If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 210 | Monitored Outfall [042] Free of Evidence of Erosion? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 220 | Monitored Outfall [042] Flow Dissipation Devices Operating Effectively? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 230 | Monitored Outfall [042] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 240 | Monitored Outfall [042] Free of any unauthorized non-stormwater discharges? If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 250 | Monitored Outfall [084] Free of Evidence of Erosion? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 260 | Monitored Outfall [084] Flow Dissipation Devices Operating Effectively? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 270 | Monitored Outfall [084] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 280 | Monitored Outfall [084] Free of any unauthorized non-stormwater discharges? If "No" | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

| | | | | |
|---|---|--------------------------|--------------------------|-------------------------------------|
| | describe. | | | |
| 290 | Substantially Identical Discharge Point [030] Free of Evidence of Erosion? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 300 | Substantially Identical Discharge Point [030] Flow Dissipation Devices Operating Effectively? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 310 | Substantially Identical Discharge Point [030] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 320 | Substantially Identical Discharge Point [030] Free of any unauthorized non-stormwater discharges? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 330 | Substantially Identical Discharge Point [033] Free of Evidence of Erosion? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 340 | Substantially Identical Discharge Point [033] Flow Dissipation Devices Operating Effectively? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 350 | Substantially Identical Discharge Point [033] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 360 | Substantially Identical Discharge Point [033] Free of any unauthorized non-stormwater discharges? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 370 | Substantially Identical Discharge Point [034] Free of Evidence of Erosion? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 380 | Substantially Identical Discharge Point [034] Flow Dissipation Devices Operating Effectively? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 390 | Substantially Identical Discharge Point [034] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 400 | Substantially Identical Discharge Point [034] Free of any unauthorized non-stormwater discharges? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 410 | Substantially Identical Discharge Point [035] Free of Evidence of Erosion? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 420 | Substantially Identical Discharge Point [035] Flow Dissipation Devices Operating Effectively? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 430 | Substantially Identical Discharge Point [035] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 440 | Substantially Identical Discharge Point [035] Free of any unauthorized non-stormwater discharges? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Control Measures (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant task comments). | | | | |
| 460 | Asphalt Berm [6000303040052] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 470 | Asphalt Berm [6000303040062] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 480 | Asphalt Berm [6000303040097] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 490 | Rock Channel/Swale [6000304030016] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 500 | Rock Channel/Swale [6000304030039] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 510 | Rock Channel/Swale [6000304030040] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 520 | Rock Channel/Swale [6000304030060] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 530 | Rock Channel/Swale [6000304030095] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 540 | Rock Channel/Swale [6000304030096] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 550 | Erosion Control Blanket [6000301060099] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 560 | Rip Rap [6000304060011] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 570 | Rip Rap [6000304060014] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 580 | Rip Rap [6000304060022] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 590 | Rip Rap [6000304060025] Control Measure is operating effectively? If "No" describe | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

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|-----|--|--------------------------|--------------------------|-------------------------------------|
| | condition & need for Maintenance, Repair, or Replacement. | | | |
| 600 | Rip Rap [6000304060026] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 610 | Rip Rap [6000304060027] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 620 | Rip Rap [6000304060029] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 630 | Rip Rap [6000304060033] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 640 | Rip Rap [6000304060066] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 650 | Rip Rap [6000304060098] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 660 | Earthen Berm [6000303010034] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 670 | Earthen Berm [6000303010036] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 680 | Earthen Berm [6000303010037] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 690 | Earthen Berm [6000303010038] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 700 | Earthen Berm [6000303010043] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 710 | Earthen Berm [6000303010075] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 720 | Straw Wattle [6000303060078] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 730 | Sediment Basin [6000305020018] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 740 | Sediment Basin [6000305020041] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 750 | Rock Check Dam [6000306010001] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 760 | Rock Check Dam [6000306010002] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 770 | Rock Check Dam [6000306010003] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 780 | Rock Check Dam [6000306010004] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 790 | Trench Drain [6000309040057] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 800 | Jersey Barriers [6000303170015] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 810 | EnviroSoxx w/ MetalLoxx [6000303200086] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 820 | EnviroSoxx w/ MetalLoxx [6000303200087] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 830 | EnviroSoxx w/ MetalLoxx [6000303200089] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 840 | EnviroSoxx w/ MetalLoxx [6000303200090] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 850 | EnviroSoxx w/ MetalLoxx [6000303200091] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 860 | EnviroSoxx w/ MetalLoxx [6000303200092] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 870 | EnviroSoxx w/ MetalLoxx [6000303200093] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 880 | EnviroSoxx w/ MetalLoxx [6000303200094] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 890 | Permanent Vegetation Vegetative Buffer Strip [6000302030042] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 900 | TRM-Lined Swale [6000304080061] Control Measure is operating effectively? If "No" | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

CERTIFICATION STATEMENT

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information contained therein. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information contained is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

(Signatory must meet definition in Section B.11.A, eg. FOD, Ops Mgr, EPC Group or Team Leader)

Print name and title: DAVID TEJILLO UI-OPS. MGR.

Signature:  Date: 10-21-22

Maintenance Details

Requested: 10/28/2022 2:04:00 AM **Target:** 11/30/2022
Procedure: MSGP Routine Facility Inspection (EPC-CP-QP-2108 R0 Form 1) **Priority/Type:** Normal / Inspection
Last PM: 10/20/2022 **Department:** Utilities and Infrastructure
Project: Routine Facility Inspections November 2022 (P-MSGP-RI-5607) **Contact:**
Reason: 2022 November Inspection **Phone:**

 MSGP Program
 RG200.5
 TA-60 Roads and Grounds

11/29/2022
Temp. 33°F High of 38°F
Fair to Partly Cloudy
Wind - 15 to 25 mph
7:35 a.m.

Tasks

| # | Description | Meas. | No | N/A | Yes |
|---|--|-------|--------------------------|-------------------------------------|-------------------------------------|
| Weather Information | | | | | |
| 20 | Describe the weather at time of inspection and document the temperature (F°). | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Within the Facility Boundary | | | | | |
| 40 | Is the facility free of previously unidentified discharges from and/or pollutants that have occurred since the last inspection If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 50 | If "No" has a CAR been previously initiated for this new discharge? | | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 60 | Is the facility free of discharge of pollutants at the time of inspection? If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 70 | Is the facility free of evidence of, or the potential for, pollutants entering the drainage system. If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Outfall Inspection (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant task comment) | | | | | |
| 90 | Monitored Outfall [031] Free of Evidence of Erosion? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 100 | Monitored Outfall [031] Flow Dissipation Devices Operating Effectively? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 110 | Monitored Outfall [031] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 120 | Monitored Outfall [031] Free of any unauthorized non-stormwater discharges? If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 130 | Monitored Outfall [032] Free of Evidence of Erosion? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 140 | Monitored Outfall [032] Flow Dissipation Devices Operating Effectively? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 150 | Monitored Outfall [032] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 160 | Monitored Outfall [032] Free of any unauthorized non-stormwater discharges? If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 170 | Monitored Outfall [037] Free of Evidence of Erosion? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 180 | Monitored Outfall [037] Flow Dissipation Devices Operating Effectively? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 190 | Monitored Outfall [037] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 200 | Monitored Outfall [037] Free of any unauthorized non-stormwater discharges? If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 210 | Monitored Outfall [042] Free of Evidence of Erosion? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 220 | Monitored Outfall [042] Flow Dissipation Devices Operating Effectively? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 230 | Monitored Outfall [042] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 240 | Monitored Outfall [042] Free of any unauthorized non-stormwater discharges? If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

| | | | | |
|-----|--|--------------------------|--------------------------|-------------------------------------|
| 250 | Monitored Outfall [084] Free of Evidence of Erosion? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 260 | Monitored Outfall [084] Flow Dissipation Devices Operating Effectively? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 270 | Monitored Outfall [084] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 280 | Monitored Outfall [084] Free of any unauthorized non-stormwater discharges? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 290 | Substantially Identical Discharge Point [030] Free of Evidence of Erosion? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 300 | Substantially Identical Discharge Point [030] Flow Dissipation Devices Operating Effectively? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 310 | Substantially Identical Discharge Point [030] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 320 | Substantially Identical Discharge Point [030] Free of any unauthorized non-stormwater discharges? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 330 | Substantially Identical Discharge Point [033] Free of Evidence of Erosion? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 340 | Substantially Identical Discharge Point [033] Flow Dissipation Devices Operating Effectively? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 350 | Substantially Identical Discharge Point [033] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 360 | Substantially Identical Discharge Point [033] Free of any unauthorized non-stormwater discharges? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 370 | Substantially Identical Discharge Point [034] Free of Evidence of Erosion? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 380 | Substantially Identical Discharge Point [034] Flow Dissipation Devices Operating Effectively? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 390 | Substantially Identical Discharge Point [034] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 400 | Substantially Identical Discharge Point [034] Free of any unauthorized non-stormwater discharges? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 410 | Substantially Identical Discharge Point [035] Free of Evidence of Erosion? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 420 | Substantially Identical Discharge Point [035] Flow Dissipation Devices Operating Effectively? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 430 | Substantially Identical Discharge Point [035] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 440 | Substantially Identical Discharge Point [035] Free of any unauthorized non-stormwater discharges? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Control Measures (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant task comments).

| | | | | |
|-----|---|--------------------------|--------------------------|-------------------------------------|
| 460 | Asphalt Berm [6000303040052] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 470 | Asphalt Berm [6000303040062] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 480 | Asphalt Berm [6000303040097] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 490 | Rock Channel/Swale [6000304030016] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 500 | Rock Channel/Swale [6000304030039] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 510 | Rock Channel/Swale [6000304030040] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 520 | Rock Channel/Swale [6000304030060] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 530 | Rock Channel/Swale [6000304030095] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 540 | Rock Channel/Swale [6000304030096] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 550 | Erosion Control Blanket [6000301060099] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

| | | | | |
|-----|--|--------------------------|--------------------------|-------------------------------------|
| 870 | EnviroSoxx w/ MetalLoxx [6000303200093] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 880 | EnviroSoxx w/ MetalLoxx [6000303200094] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 890 | Permanent Vegetation Vegetative Buffer Strip [6000302030042] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 900 | TRM-Lined Swale [6000304080061] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Area/Activity exposed to stormwater (identify needed maintenance or a description of corrective actions in relevant task comment).

| | | | | |
|------|---|-------------------------------------|-------------------------------------|-------------------------------------|
| 920 | Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 930 | Transfer areas for substances in bulk: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 940 | Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 950 | Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 960 | Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 970 | Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 980 | Fueling areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 990 | Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 1000 | Machinery: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1010 | Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1020 | Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1030 | Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1040 | Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 1050 | Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1060 | Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If "No" describe. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 1070 | Leaks and spills: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1080 | Sector P [60003-P] Vehicle storage/maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Non-Compliance

| | | | | |
|------|--|--------------------------|--------------------------|-------------------------------------|
| 1100 | Free of incidents of observed non-compliance not already identified above? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
|------|--|--------------------------|--------------------------|-------------------------------------|

Additional Control Measures

| | | | | |
|------|--|--------------------------|--------------------------|-------------------------------------|
| 1120 | Are permit requirements satisfied with existing control measure(s)? If "No" describe additional control measures needed. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
|------|--|--------------------------|--------------------------|-------------------------------------|

Labor

| Labor | Assigned | Work Date | Reg Hrs | OT Hrs | Other Hrs |
|------------------|----------|----------------|---------|--------|-----------|
| Leonard Sandoval | | 11/1/2022 / 14 | | | |

Labor Report

Maintenance Details

Requested: 11/28/2022 12:52:37 PM
Procedure: MSGP Routine Facility Inspection (EPC-CP-QP-2108 R0 Form 1)
Last PM: 11/29/2022
Project: Routine Facility Inspections December 2022 (P-MSGP-RI-5613)
Reason: 2022 December Inspection

Target: 12/1/2022
Priority/Type: Normal / Inspection
Department: Utilities and Infrastructure

MSGP Program
 RG200.5
 TA-60 Roads and Grounds

Contact:
Phone:

*12/19/2022 Temp. 19°F High of 40°F
 Clear/Sunny
 Wind 10-15 mph
 11:00 a.m.*

Tasks

| # | Description | Meas. | No | N/A | Yes |
|---|--|-------|--------------------------|-------------------------------------|-------------------------------------|
| Weather Information | | | | | |
| 20 | Describe the weather at time of inspection and document the temperature (F°). | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Within the Facility Boundary | | | | | |
| 40 | Is the facility free of previously unidentified discharges from and/or pollutants that have occurred since the last inspection If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 50 | If "No" has a CAR been previously initiated for this new discharge? | | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 60 | Is the facility free of discharge of pollutants at the time of inspection? If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 70 | Is the facility free of evidence of, or the potential for, pollutants entering the drainage system. If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Outfall Inspection (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant task comment) | | | | | |
| 90 | Monitored Outfall [031] Free of Evidence of Erosion? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 100 | Monitored Outfall [031] Flow Dissipation Devices Operating Effectively? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 110 | Monitored Outfall [031] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 120 | Monitored Outfall [031] Free of any unauthorized non-stormwater discharges? If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 130 | Monitored Outfall [032] Free of Evidence of Erosion? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 140 | Monitored Outfall [032] Flow Dissipation Devices Operating Effectively? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 150 | Monitored Outfall [032] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 160 | Monitored Outfall [032] Free of any unauthorized non-stormwater discharges? If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 170 | Monitored Outfall [037] Free of Evidence of Erosion? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 180 | Monitored Outfall [037] Flow Dissipation Devices Operating Effectively? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 190 | Monitored Outfall [037] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 200 | Monitored Outfall [037] Free of any unauthorized non-stormwater discharges? If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 210 | Monitored Outfall [042] Free of Evidence of Erosion? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 220 | Monitored Outfall [042] Flow Dissipation Devices Operating Effectively? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 230 | Monitored Outfall [042] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 240 | Monitored Outfall [042] Free of any unauthorized non-stormwater discharges? If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

| | | | | |
|-----|--|--------------------------|--------------------------|-------------------------------------|
| 250 | Monitored Outfall [084] Free of Evidence of Erosion? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 260 | Monitored Outfall [084] Flow Dissipation Devices Operating Effectively? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 270 | Monitored Outfall [084] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 280 | Monitored Outfall [084] Free of any unauthorized non-stormwater discharges? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 290 | Substantially Identical Discharge Point [030] Free of Evidence of Erosion? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 300 | Substantially Identical Discharge Point [030] Flow Dissipation Devices Operating Effectively? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 310 | Substantially Identical Discharge Point [030] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 320 | Substantially Identical Discharge Point [030] Free of any unauthorized non-stormwater discharges? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 330 | Substantially Identical Discharge Point [033] Free of Evidence of Erosion? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 340 | Substantially Identical Discharge Point [033] Flow Dissipation Devices Operating Effectively? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 350 | Substantially Identical Discharge Point [033] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 360 | Substantially Identical Discharge Point [033] Free of any unauthorized non-stormwater discharges? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 370 | Substantially Identical Discharge Point [034] Free of Evidence of Erosion? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 380 | Substantially Identical Discharge Point [034] Flow Dissipation Devices Operating Effectively? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 390 | Substantially Identical Discharge Point [034] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 400 | Substantially Identical Discharge Point [034] Free of any unauthorized non-stormwater discharges? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 410 | Substantially Identical Discharge Point [035] Free of Evidence of Erosion? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 420 | Substantially Identical Discharge Point [035] Flow Dissipation Devices Operating Effectively? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 430 | Substantially Identical Discharge Point [035] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 440 | Substantially Identical Discharge Point [035] Free of any unauthorized non-stormwater discharges? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Control Measures (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant task comments).

| | | | | |
|-----|---|--------------------------|--------------------------|-------------------------------------|
| 460 | Asphalt Berm [6000303040052] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 470 | Asphalt Berm [6000303040062] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. <i>Refer to Labor Report</i> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 480 | Asphalt Berm [6000303040097] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 490 | Rock Channel/Swale [6000304030016] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 500 | Rock Channel/Swale [6000304030039] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 510 | Rock Channel/Swale [6000304030040] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 520 | Rock Channel/Swale [6000304030060] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 530 | Rock Channel/Swale [6000304030095] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 540 | Rock Channel/Swale [6000304030096] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 550 | Erosion Control Blanket [6000301060099] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

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| 560 | Rip Rap [6000304060011] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 570 | Rip Rap [6000304060014] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 580 | Rip Rap [6000304060022] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 590 | Rip Rap [6000304060025] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 600 | Rip Rap [6000304060026] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 610 | Rip Rap [6000304060027] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 620 | Rip Rap [6000304060029] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 630 | Rip Rap [6000304060033] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 640 | Rip Rap [6000304060066] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 650 | Rip Rap [6000304060098] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 660 | Earthen Berm [6000303010034] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 670 | Earthen Berm [6000303010036] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 680 | Earthen Berm [6000303010037] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 690 | Earthen Berm [6000303010038] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 700 | Earthen Berm [6000303010043] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 710 | Earthen Berm [6000303010075] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 720 | Straw Wattle [6000303060078] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 730 | Sediment Basin [6000305020018] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 740 | Sediment Basin [6000305020041] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 750 | Rock Check Dam [6000306010001] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 760 | Rock Check Dam [6000306010002] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 770 | Rock Check Dam [6000306010003] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 780 | Rock Check Dam [6000306010004] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 790 | Trench Drain [6000309040057] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 800 | Jersey Barriers [6000303170015] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 810 | EnviroSoxx w/ MetalLoxx [6000303200086] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 820 | EnviroSoxx w/ MetalLoxx [6000303200087] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 830 | EnviroSoxx w/ MetalLoxx [6000303200089] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 840 | EnviroSoxx w/ MetalLoxx [6000303200090] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 850 | EnviroSoxx w/ MetalLoxx [6000303200091] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 860 | EnviroSoxx w/ MetalLoxx [6000303200092] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Refer to Labor Report

| | | | | |
|-----|--|--------------------------|--------------------------|-------------------------------------|
| 870 | EnviroSoxx w/ MetalLoxx [6000303200093] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 880 | EnviroSoxx w/ MetalLoxx [6000303200094] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 890 | Permanent Vegetation Vegetative Buffer Strip [6000302030042] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 900 | TRM-Lined Swale [6000304080061] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Area/Activity exposed to stormwater (identify needed maintenance or a description of corrective actions in relevant task comment).

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|------|---|-------------------------------------|-------------------------------------|-------------------------------------|
| 920 | Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 930 | Transfer areas for substances in bulk: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 940 | Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 950 | Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 960 | Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 970 | Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 980 | Fueling areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 990 | Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 1000 | Machinery: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1010 | Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1020 | Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1030 | Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1040 | Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1050 | Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1060 | Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If "No" describe. | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 1070 | Leaks and spills: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1080 | Sector P [60003-P] Vehicle storage/maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Non-Compliance

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|------|--|--------------------------|--------------------------|-------------------------------------|
| 1100 | Free of incidents of observed non-compliance not already identified above? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
|------|--|--------------------------|--------------------------|-------------------------------------|

Additional Control Measures

| | | | | |
|------|--|--------------------------|--------------------------|-------------------------------------|
| 1120 | Are permit requirements satisfied with existing control measure(s)? If "No" describe additional control measures needed. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
|------|--|--------------------------|--------------------------|-------------------------------------|

Labor

| Labor | Assigned | Work Date | Reg Hrs | OT Hrs | Other Hrs |
|------------------|----------|----------------|---------|--------|-----------|
| Leonard Sandoval | | 11/28/2022 / 1 | | | |

Labor Report

Completed: _____

Report:

At the TA-61 asphalt millings staging area the berm at the SE corner of the site boundary needs to be rebuilt & entered into the MSGP tracking database as CAR # 2193.

Leonard F. Sundaal

12/19/2022 1:00 p.m.

Signature / Name

Date

Signature / Name

Date

I confirm the information as recorded is true, accurate and complete.

CERTIFICATION STATEMENT

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information contained therein. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information contained is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

(Signatory must meet definition in Section B.11.A, eg. FOD, Ops Mgr, EPC Group or Team Leader)

Print name and title:

Philip Wheeler Operations Mgr.

Signature:

PH

Date:

1/4/23

Holly Wheeler EPC-CP was present during the annual MSGP inspection.

Erosion is occurring to the NE of the sediment basin at TA-60 R&G West & entered into the MSGP tracking database as CAR # 2194.

Trash present at TA-60 R&G W & E along with a stack of small PVC pipe & end caps N. of TA-60-0250 that is a housekeeping issue & entered into the MSGP tracking database as CAR # 2195.

East of Salt shed 60-0178 there is a 5 gallon bucket with water in it that needs to be managed appropriately & entered into the MSGP tracking database as CAR # 2196.

Northward East of the small heavy equipment staging area there are damaged totes, metal frame w/ a portable canopy that are a housekeeping issue & entered into the MSGP tracking database as CAR # 2197.

There is an open top poly tank that contains residual ice melting agent in the small heavy equipment staging area that needs to be covered & entered into the MSGP tracking database as CAR # 2198.

While a truck was filling up w/ salt there was residual left on the asphalt south of Salt shed 60-0178 that needs to be swept & entered into the MSGP tracking database as CAR # 2199.

over ↑

At the SE corner of the cleanfill yard soil is over tapping the
barn & the barn needs to be re-established & compacted &
was entered into the MSGP tracking database as CAR # 2200.

The rock (p. vap) at the entrance to the pathing staging area
needs to be re-installed per the LAMP Storm Water BMP
Manual & entered into the MSGP tracking database as CAR
2201.

[Faint, illegible handwritten notes and bleed-through from the reverse side of the page.]

Maintenance Details

Requested: 12/17/2021 1:05:31 PM **Target:** 1/31/2022
Procedure: MSGP Routine Facility Inspection (EPC-CP-QP-2108 R0 Form 1) **Priority/Type:** Normal / Inspection
Last PM: 11/9/2021 **Department:** Utilities and Infrastructure
Project: Routine Facility Inspections January 2022 (P-MSGP-RI-5544) **Contact:**
Reason: 2022 January Inspections **Phone:**

 MSGP Program
 RG200.5
 TA-60 Asphalt Batch Plant

*1/4/2022 Temp. 21°F High of 39°F
 Fair to Partly Cloudy
 Wind - Less than 5mph
 9:58 a.m.*

Tasks

| # | Description | Meas. | No | N/A | Yes |
|---|--|-------|--------------------------|-------------------------------------|-------------------------------------|
| Weather Information | | | | | |
| 20 | Describe the weather at time of inspection and document the temperature (F°). | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Within the Facility Boundary | | | | | |
| 40 | Is the facility free of previously unidentified discharges from and/or pollutants that have occurred since the last inspection If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 50 | If "No" has a CAR been previously initiated for this new discharge? | | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 60 | Is the facility free of discharge of pollutants at the time of inspection? If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 70 | Is the facility free of evidence of, or the potential for, pollutants entering the drainage system. If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Outfall Inspection (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant task comment) | | | | | |
| 90 | Monitored Outfall [043] Free of Evidence of Erosion? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 100 | Monitored Outfall [043] Flow Dissipation Devices Operating Effectively? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 110 | Monitored Outfall [043] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 120 | Monitored Outfall [043] Free of any unauthorized non-stormwater discharges? If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Control Measures (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant task comments). | | | | | |
| 140 | Rip Rap [6000104060005] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 150 | Rip Rap [6000104060012] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 160 | Detention Pond [6000111020001] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 170 | Earthen Berm [6000103010009] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 180 | Base Course Berm [6000103020004] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 190 | Base Course Berm [6000103020006] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 200 | Coir Log [6000103140011] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Area/Activity exposed to stormwater (identify needed maintenance or a description of corrective actions in relevant task comment). | | | | | |
| 220 | Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 230 | Transfer areas for substances in bulk: controls adequate (appropriate, effective, and | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

| | | | | |
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| | operating)? If "No" describe. | | | |
| 240 | Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 250 | Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 260 | Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 270 | Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 280 | Fueling areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 290 | Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 300 | Machinery: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 310 | Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 320 | Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 330 | Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 340 | Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 350 | Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 360 | Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 370 | Leaks and spills: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Non-Compliance

| | | | | |
|-----|--|--------------------------|--------------------------|-------------------------------------|
| 390 | Free of incidents of observed non-compliance not already identified above? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
|-----|--|--------------------------|--------------------------|-------------------------------------|

Additional Control Measures

| | | | | |
|-----|--|--------------------------|--------------------------|-------------------------------------|
| 410 | Are permit requirements satisfied with existing control measure(s)? If "No" describe additional control measures needed. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
|-----|--|--------------------------|--------------------------|-------------------------------------|

Labor

| Labor | Assigned | Work Date | Reg Hrs | OT Hrs | Other Hrs |
|------------------|--------------|-----------|---------|--------|-----------|
| Leonard Sandoval | 1/1/2022 / 1 | | | | |

Labor Report

Completed: _____

Report:

Leonard F. Sandoval

1/4/2022 10:15 a.m.

Signature / Name

Date

Signature / Name

Date

I confirm the information as recorded is true, accurate and complete.

CERTIFICATION STATEMENT

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering information, the

information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations".

(Signatory must meet definition in Section B.11.A, eg. FOD, Ops Mgr, DESH Group Leader, EPC Group Leader)

Print name and title: Philip Eldbarr.

Signature:  Date: 02/01/22

Maintenance Details

Requested: 12/17/2021 1:12:04 PM **Target:** 2/28/2022
Procedure: MSGP Routine Facility Inspection (EPC-CP-QP-2108 R0 Form 1) **Priority/Type:** Normal / Inspection
Last PM: 12/20/2021 **Department:** Utilities and Infrastructure
Project: Routine Facility Inspections February 2022 (P-MSGP-RI-5545) **Contact:**
Reason: 2022 February Inspections **Phone:**

MSGP Program
 RG200.5
 TA-60 Asphalt Batch Plant

*2/8/2022 Temp 26°F High 42°F
 Fair to Partly Cloudy
 8:55 a.m.
 Wind - Less than 5 mph*

Tasks

| # | Description | Meas. | No | N/A | Yes |
|---|--|-------|--------------------------|-------------------------------------|-------------------------------------|
| Weather Information | | | | | |
| 20 | Describe the weather at time of inspection and document the temperature (F°). | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Within the Facility Boundary | | | | | |
| 40 | Is the facility free of previously unidentified discharges from and/or pollutants that have occurred since the last inspection If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 50 | If "No" has a CAR been previously initiated for this new discharge? | | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 60 | Is the facility free of discharge of pollutants at the time of inspection? If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 70 | Is the facility free of evidence of, or the potential for, pollutants entering the drainage system. If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Outfall Inspection (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant task comment) | | | | | |
| 90 | Monitored Outfall [043] Free of Evidence of Erosion? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 100 | Monitored Outfall [043] Flow Dissipation Devices Operating Effectively? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 110 | Monitored Outfall [043] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 120 | Monitored Outfall [043] Free of any unauthorized non-stormwater discharges? If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Control Measures (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant task comments). | | | | | |
| 140 | Rip Rap [6000104060005] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 150 | Rip Rap [6000104060012] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 160 | Detention Pond [6000111020001] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 170 | Earthen Berm [6000103010009] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 180 | Base Course Berm [6000103020004] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 190 | Base Course Berm [6000103020006] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 200 | Coir Log [6000103140011] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Area/Activity exposed to stormwater (identify needed maintenance or a description of corrective actions in relevant task comment). | | | | | |
| 220 | Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 230 | Transfer areas for substances in bulk: controls adequate (appropriate, effective, and | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

| | | | | |
|------------------------------------|---|--------------------------|-------------------------------------|-------------------------------------|
| | operating)? If "No" describe. | | | |
| 240 | Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 250 | Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 260 | Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 270 | Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 280 | Fueling areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 290 | Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 300 | Machinery: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 310 | Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 320 | Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 330 | Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 340 | Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 350 | Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 360 | Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 370 | Leaks and spills: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Non-Compliance | | | | |
| 390 | Free of incidents of observed non-compliance not already identified above? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Additional Control Measures | | | | |
| 410 | Are permit requirements satisfied with existing control measure(s)? If "No" describe additional control measures needed. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Labor

| Labor | Assigned | Work Date | Reg Hrs | OT Hrs | Other Hrs |
|------------------|----------|--------------|---------|--------|-----------|
| Leonard Sandoval | | 2/1/2022 / 1 | | | |

Labor Report

Completed: _____

Report:

Mud being tracked in & out of the Cleanfill yard and entered into the MSGP tracking database as CAR# 2067.

Leonard F. Sandoval

2/8/2022 9:10 a.m.

Signature / Name

Date

Signature / Name

Date

I confirm the information as recorded is true, accurate and complete.

CERTIFICATION STATEMENT

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering information, the

information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations".

(Signatory must meet definition in Section B.11.A, eg. FOD, Ops Mgr, DESH Group Leader, EPC Group Leader)

Print name and title: DAVID E. TEWILLO UI-OPS MANAGER

Signature: D. E. Tewillo Date: 2-28-22

Facility covered by several inches of frozen snow.

Maintenance Details

Requested: 3/14/2022 5:23:00 PM **Target:** 3/31/2022
Procedure: MSGP Routine Facility Inspection (EPC-CP-QP-2108 R0 Form 1) **Priority/Type:** / Inspection
Last PM: 2/3/2022 **Department:** Utilities and Infrastructure
Project: Routine Facility Inspections March 2022 (P-MSGP-RI-5560) **Contact:**
Reason: 2022 March Inspections **Phone:**

 MSGP Program
 RG200.5
 TA-60 Asphalt Batch Plant

*3/11/2022 Temp. 33°F High of 58°F
 Clear/Sunny
 Wind - 5mph
 9:16 a.m.*

Tasks

| # | Description | Meas. | No | N/A | Yes |
|---|--|-------|--------------------------|-------------------------------------|-------------------------------------|
| Weather Information | | | | | |
| 20 | Describe the weather at time of inspection and document the temperature (F°). | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Within the Facility Boundary | | | | | |
| 40 | Is the facility free of previously unidentified discharges from and/or pollutants that have occurred since the last inspection If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 50 | If "No" has a CAR been previously initiated for this new discharge? | | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 60 | Is the facility free of discharge of pollutants at the time of inspection? If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 70 | Is the facility free of evidence of, or the potential for, pollutants entering the drainage system. If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Outfall Inspection (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant task comment) | | | | | |
| 90 | Monitored Outfall [043] Free of Evidence of Erosion? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 100 | Monitored Outfall [043] Flow Dissipation Devices Operating Effectively? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 110 | Monitored Outfall [043] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 120 | Monitored Outfall [043] Free of any unauthorized non-stormwater discharges? If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Control Measures (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant task comments). | | | | | |
| 140 | Rip Rap [6000104060005] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 150 | Rip Rap [6000104060012] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 160 | Detention Pond [6000111020001] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 170 | Earthen Berm [6000103010009] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 180 | Base Course Berm [6000103020004] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 190 | Base Course Berm [6000103020006] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 200 | Coir Log [6000103140011] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Area/Activity exposed to stormwater (identify needed maintenance or a description of corrective actions in relevant task comment). | | | | | |
| 220 | Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 230 | Transfer areas for substances in bulk: controls adequate (appropriate, effective, and | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

| | | | | |
|------------------------------------|---|-------------------------------------|-------------------------------------|-------------------------------------|
| | operating)? If "No" describe. | | | |
| 240 | Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 250 | Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 260 | Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 270 | Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 280 | Fueling areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 290 | Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 300 | Machinery: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 310 | Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 320 | Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 330 | Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 340 | Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 350 | Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 360 | Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If "No" describe. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 370 | Leaks and spills: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Non-Compliance | | | | |
| 390 | Free of incidents of observed non-compliance not already identified above? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Additional Control Measures | | | | |
| 410 | Are permit requirements satisfied with existing control measure(s)? If "No" describe additional control measures needed. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Refer to Labor Report

Labor

| Labor | Assigned | Work Date | Reg Hrs | OT Hrs | Other Hrs |
|------------------|----------|---------------|---------|--------|-----------|
| Leonard Sandoval | | 2/25/2022 / 1 | | | |

Labor Report

Completed: _____

Report: Five foot sections of rebar & big chunks/slabs of asphalt in a pile that as a housekeeping entered into the MSGP tracking as CAR # 2017.

Leonard F. Sandoval 3/1/2022 9:30 a.m.
 Signature / Name Date Signature / Name Date

I confirm the information as recorded is true, accurate and complete.

CERTIFICATION STATEMENT

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information contained therein. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information,

the information contained is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

(Signatory must meet definition in Section B.11.A, eg. FOD, Ops Mgr, EPC Group or Team Leader)

Print name and title: DAVIDE TRUJILLO UI-OPS-MANAGER

Signature:  Date: 3-24-22

Maintenance Details

Requested: 4/5/2022 4:47:00 PM **Target:** 4/28/2022
Procedure: MSGP Routine Facility Inspection (EPC-CP-QP-2108 R0 Form 1) **Priority/Type:** Normal / Inspection
Last PM: 3/1/2022 **Department:** Utilities and Infrastructure
Project: Routine Facility Inspections April 2022 (P-MSGP-RI-5567) **Contact:**
Reason: 2022 April Inspections **Phone:**

4/6/2022 Temp. 40°F High of 55°F
Clear/Sunny
Wind - 5 mph
8:55 a.m.

MSGP Program
 RG200.5
 TA-60 Asphalt Batch Plant

Tasks

| # | Description | Meas. | No | N/A | Yes |
|---|--|-------|--------------------------|-------------------------------------|-------------------------------------|
| Weather Information | | | | | |
| 20 | Describe the weather at time of inspection and document the temperature (F°). | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Within the Facility Boundary | | | | | |
| 40 | Is the facility free of previously unidentified discharges from and/or pollutants that have occurred since the last inspection If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 50 | If "No" has a CAR been previously initiated for this new discharge? | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 60 | Is the facility free of discharge of pollutants at the time of inspection? If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 70 | Is the facility free of evidence of, or the potential for, pollutants entering the drainage system. If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Outfall Inspection (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant task comment) | | | | | |
| 90 | Monitored Outfall [043] Free of Evidence of Erosion? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 100 | Monitored Outfall [043] Flow Dissipation Devices Operating Effectively? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 110 | Monitored Outfall [043] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 120 | Monitored Outfall [043] Free of any unauthorized non-stormwater discharges? If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Control Measures (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant task comments). | | | | | |
| 140 | Rip Rap [6000104060005] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 150 | Rip Rap [6000104060012] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 160 | Detention Pond [6000111020001] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 170 | Earthen Berm [6000103010009] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 180 | Base Course Berm [6000103020004] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 190 | Base Course Berm [6000103020006] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 200 | Coir Log [6000103140011] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Area/Activity exposed to stormwater (identify needed maintenance or a description of corrective actions in relevant task comment). | | | | | |
| 220 | Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 230 | Transfer areas for substances in bulk: controls adequate (appropriate, effective, and operating)? If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 240 | Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 250 | Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe. | | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 260 | Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Maintenance Details

Requested: 5/2/2022 9:14:00 AM **Target:** 5/31/2022
Procedure: MSGP Routine Facility Inspection (EPC-CP-QP-2108 R0 Form 1) **Priority/Type:** Normal / Inspection
Last PM: 3/1/2022 **Department:** Utilities and Infrastructure
Project: Routine Facility Inspections May 2022 (P-MSGP-RI-5575) **Contact:**
Reason: 2022 May Inspections **Phone:**

MSGP Program
 RG200.5
 TA-60 Asphalt Batch Plant

5/3/2022
Temp. 45°F - High of 72°F
Clear/Sunny
Smoggy Haze in the air from the Cerro Pelado fire
Wind - 5mph

Tasks

8:22 a.m.

| # | Description | Meas. | No | N/A | Yes |
|---|--|-------|--------------------------|-------------------------------------|-------------------------------------|
| Weather Information | | | | | |
| 20 | Describe the weather at time of inspection and document the temperature (F°). | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Within the Facility Boundary | | | | | |
| 40 | Is the facility free of previously unidentified discharges from and/or pollutants that have occurred since the last inspection If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 50 | If "No" has a CAR been previously initiated for this new discharge? | | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 60 | Is the facility free of discharge of pollutants at the time of inspection? If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 70 | Is the facility free of evidence of, or the potential for, pollutants entering the drainage system. If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Outfall Inspection (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant task comment) | | | | | |
| 90 | Monitored Outfall [043] Free of Evidence of Erosion? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 100 | Monitored Outfall [043] Flow Dissipation Devices Operating Effectively? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 110 | Monitored Outfall [043] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 120 | Monitored Outfall [043] Free of any unauthorized non-stormwater discharges? If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Control Measures (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant task comments). | | | | | |
| 140 | Rip Rap [6000104060005] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 150 | Rip Rap [6000104060012] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 160 | Detention Pond [6000111020001] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 170 | Earthen Berm [6000103010009] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 180 | Base Course Berm [6000103020004] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 190 | Base Course Berm [6000103020006] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 200 | Coir Log [6000103140011] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Area/Activity exposed to stormwater (identify needed maintenance or a description of corrective actions in relevant task comment). | | | | | |
| 220 | Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 230 | Transfer areas for substances in bulk: controls adequate (appropriate, effective, and operating)? If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

| | | | | |
|-----|---|--------------------------|-------------------------------------|-------------------------------------|
| 240 | Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 250 | Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 260 | Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 270 | Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 280 | Fueling areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 290 | Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 300 | Machinery: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 310 | Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 320 | Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 330 | Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 340 | Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 350 | Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 360 | Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 370 | Leaks and spills: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Non-Compliance

| | | | | |
|-----|--|--------------------------|--------------------------|-------------------------------------|
| 390 | Free of incidents of observed non-compliance not already identified above? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
|-----|--|--------------------------|--------------------------|-------------------------------------|

Additional Control Measures

| | | | | |
|-----|--|--------------------------|--------------------------|-------------------------------------|
| 410 | Are permit requirements satisfied with existing control measure(s)? If "No" describe additional control measures needed. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
|-----|--|--------------------------|--------------------------|-------------------------------------|

Labor

| Labor | Assigned | Work Date | Reg Hrs | OT Hrs | Other Hrs |
|------------------|--------------|-----------|---------|--------|-----------|
| Leonard Sandoval | 5/2/2022 / 1 | | | | |

Labor Report

Completed: _____

Report: _____

Leonard F. Sandoval
 Signature / Name

5/3/2022 8:40 a.m.
 Date

Signature / Name

Date

I confirm the information as recorded is true, accurate and complete.

CERTIFICATION STATEMENT

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information contained therein. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information,

the information contained is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

(Signatory must meet definition in Section B.11.A, eg. FOD, Ops Mgr, EPC Group or Team Leader)

Print name and title: DAVID E. TRUJILLO UI-OPS MANAGER

Signature:  Date: 5-25-2022

Maintenance Details

Requested: 5/31/2022 4:31:55 PM **Target:** 6/30/2022 MSGP Program
Procedure: MSGP Routine Facility Inspection (EPC-CP-QP-2108 R0 Form 1) **Priority/Type:** Normal / Inspection RG200.5
Last PM: 4/6/2022 **Department:** Utilities and Infrastructure TA-60 Asphalt Batch Plant
Project: Routine Facility Inspections June 2022 (P-MSGP-RI-5580) **Contact:** **Phone:**

*6/1/2022 Temp. 55°F High of 75°F
 Fair to Partly Cloudy
 4 Smokey Haze
 Wind - S to 10 mph
 1:05 p.m.*

Reason: 2022 June Inspections

Tasks

| # | Description | Meas. | No | N/A | Yes |
|---|--|-------|--------------------------|-------------------------------------|-------------------------------------|
| Weather Information | | | | | |
| 20 | Describe the weather at time of inspection and document the temperature (F°). | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Within the Facility Boundary | | | | | |
| 40 | Is the facility free of previously unidentified discharges from and/or pollutants that have occurred since the last inspection If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 50 | If "No" has a CAR been previously initiated for this new discharge? | | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 60 | Is the facility free of discharge of pollutants at the time of inspection? If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 70 | Is the facility free of evidence of, or the potential for, pollutants entering the drainage system. If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Outfall Inspection (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant task comment) | | | | | |
| 90 | Monitored Outfall [043] Free of Evidence of Erosion? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 100 | Monitored Outfall [043] Flow Dissipation Devices Operating Effectively? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 110 | Monitored Outfall [043] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 120 | Monitored Outfall [043] Free of any unauthorized non-stormwater discharges? If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Control Measures (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant task comments). | | | | | |
| 140 | Rip Rap [6000104060005] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 150 | Rip Rap [6000104060012] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 160 | Detention Pond [6000111020001] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 170 | Earthen Berm [6000103010009] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 180 | Base Course Berm [6000103020004] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 190 | Base Course Berm [6000103020006] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 200 | Coir Log [6000103140011] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Area/Activity exposed to stormwater (identify needed maintenance or a description of corrective actions in relevant task comment). | | | | | |
| 220 | Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 230 | Transfer areas for substances in bulk: controls adequate (appropriate, effective, and | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

| | | | | |
|------------------------------------|---|--------------------------|-------------------------------------|-------------------------------------|
| | operating)? If "No" describe. | | | |
| 240 | Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 250 | Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 260 | Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 270 | Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 280 | Fueling areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 290 | Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 300 | Machinery: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 310 | Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 320 | Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 330 | Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 340 | Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 350 | Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 360 | Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 370 | Leaks and spills: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Non-Compliance | | | | |
| 390 | Free of incidents of observed non-compliance not already identified above? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Additional Control Measures | | | | |
| 410 | Are permit requirements satisfied with existing control measure(s)? If "No" describe additional control measures needed. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Labor

| Labor | Assigned | Work Date | Reg Hrs | OT Hrs | Other Hrs |
|------------------|---------------|-----------|---------|--------|-----------|
| Leonard Sandoval | 5/31/2022 / 1 | | | | |

Labor Report

Completed: _____

Report: _____

Leonard F. Sandoval 6/1/2022 1:25 p.m.

Signature / Name

Date

Signature / Name

Date

I confirm the information as recorded is true, accurate and complete.

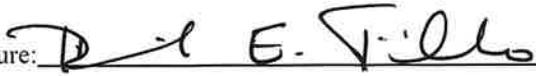
CERTIFICATION STATEMENT

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information contained therein. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information,

the information contained is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

(Signatory must meet definition in Section B.11.A, eg. FOD, Ops Mgr, EPC Group or Team Leader)

Print name and title: DAVID E. TRUJILLO UI - OPS. MANAGER

Signature:  Date: 7-1-22

Maintenance Details

Requested: 6/30/2022 1:57:00 PM
Procedure: MSGP Routine Facility Inspection (EPC-CP-QP-2108 R0 Form 1)
Last PM: 6/1/2022
Project: Routine Facility Inspections July 2022 (P-MSGP-RI-5588)
Reason: 2022 July Inspections

Target: 7/31/2022
Priority/Type: Normal / Inspection
Department: Utilities and Infrastructure

MSGP Program
 RG200.5
 TA-60 Asphalt Batch Plant

*7/5/2022 Temp. 70°F / High of 78°F
 Fair to Partly Cloudy
 45% chance of rain - Hot & Humid
 Wind - Less than 5 mph
 12:15 p.m.*

Contact:
Phone:

Tasks

| # | Description | Meas. | No | N/A | Yes |
|---|--|-------|--------------------------|-------------------------------------|-------------------------------------|
| Weather Information | | | | | |
| 20 | Describe the weather at time of inspection and document the temperature (F°). | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Within the Facility Boundary | | | | | |
| 40 | Is the facility free of previously unidentified discharges from and/or pollutants that have occurred since the last inspection? If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 50 | If "No" has a CAR been previously initiated for this new discharge? | | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 60 | Is the facility free of discharge of pollutants at the time of inspection? If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 70 | Is the facility free of evidence of, or the potential for, pollutants entering the drainage system. If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Outfall Inspection (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant task comment) | | | | | |
| 90 | Monitored Outfall [043] Free of Evidence of Erosion? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 100 | Monitored Outfall [043] Flow Dissipation Devices Operating Effectively? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 110 | Monitored Outfall [043] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 120 | Monitored Outfall [043] Free of any unauthorized non-stormwater discharges? If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Control Measures (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant task comments). | | | | | |
| 140 | Rip Rap [6000104060005] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 150 | Rip Rap [6000104060012] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 160 | Detention Pond [6000111020001] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 170 | Earthen Berm [6000103010009] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 180 | Base Course Berm [6000103020004] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 190 | Base Course Berm [6000103020006] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 200 | Coir Log [6000103140011] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Area/Activity exposed to stormwater (identify needed maintenance or a description of corrective actions in relevant task comment). | | | | | |
| 220 | Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 230 | Transfer areas for substances in bulk: controls adequate (appropriate, effective, and | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

| | | | | |
|------------------------------------|---|--------------------------|-------------------------------------|-------------------------------------|
| | operating)? If "No" describe. | | | |
| 240 | Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 250 | Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 260 | Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 270 | Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 280 | Fueling areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 290 | Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 300 | Machinery: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 310 | Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 320 | Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 330 | Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 340 | Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 350 | Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 360 | Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 370 | Leaks and spills: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Non-Compliance | | | | |
| 390 | Free of incidents of observed non-compliance not already identified above? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Additional Control Measures | | | | |
| 410 | Are permit requirements satisfied with existing control measure(s)? If "No" describe additional control measures needed. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Labor

| Labor | Assigned | Work Date | Reg Hrs | OT Hrs | Other Hrs |
|------------------|---------------|-----------|---------|--------|-----------|
| Leonard Sandoval | 6/30/2022 / 1 | | | | |

Labor Report

Completed: _____

Report:
 - Note: The water level at the sediment venturiation pond has exceeded several feet below the flume to the MSQP sampler.

 Signature / Name Date Signature / Name Date

I confirm the information as recorded is true, accurate and complete.

CERTIFICATION STATEMENT

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information contained therein. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information contained is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

(Signatory must meet definition in Section B.11.A, eg. FOD, Ops Mgr, EPC Group or Team Leader)

Print name and title: DAVID E. TRUJILLO OPS. MGR.

Signature: D. E. Trujillo Date: 7-27-22

Maintenance Details

Requested: 7/29/2022 2:43:00 PM **Target:** 8/31/2022 MSGP Program
Procedure: MSGP Routine Facility Inspection (EPC-CP-QP-2108 R0 Form 1) **Priority/Type:** Normal / Inspection RG200.5
Last PM: 6/1/2022 **Department:** Utilities and Infrastructure TA-60 Asphalt Batch Plant
Project: Routine Facility Inspections August 2022 (P-MSGP-RI-5597) **Contact:** **Phone:**

*Temp. 59°F / High of 77°F
Sunny / Scattered Clouds
40% Chance of rain
Wind - Less than 5 mph
9:26 a.m.*

Reason: 2022 August Inspections

Tasks

| # | Description | Meas. | No | N/A | Yes |
|---|--|-------|--------------------------|-------------------------------------|-------------------------------------|
| Weather Information | | | | | |
| 20 | Describe the weather at time of inspection and document the temperature (F°). | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Within the Facility Boundary | | | | | |
| 40 | Is the facility free of previously unidentified discharges from and/or pollutants that have occurred since the last inspection? If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 50 | If "No" has a CAR been previously initiated for this new discharge? | | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 60 | Is the facility free of discharge of pollutants at the time of inspection? If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 70 | Is the facility free of evidence of, or the potential for, pollutants entering the drainage system. If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Outfall Inspection (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant task comment) | | | | | |
| 90 | Monitored Outfall [043] Free of Evidence of Erosion? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 100 | Monitored Outfall [043] Flow Dissipation Devices Operating Effectively? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 110 | Monitored Outfall [043] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 120 | Monitored Outfall [043] Free of any unauthorized non-stormwater discharges? If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Control Measures (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant task comments) | | | | | |
| 140 | Rip Rap [6000104060005] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 150 | Rip Rap [6000104060012] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 160 | Detention Pond [6000111020001] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 170 | Earthen Berm [6000103010009] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 180 | Base Course Berm [6000103020004] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 190 | Base Course Berm [6000103020006] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 200 | Coir Log [6000103140011] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Area/Activity exposed to stormwater (identify needed maintenance or a description of corrective actions in relevant task comment) | | | | | |
| 220 | Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

| | | | | |
|-----|---|--------------------------|-------------------------------------|-------------------------------------|
| 230 | Transfer areas for substances in bulk: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 240 | Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 250 | Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 260 | Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 270 | Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 280 | Fueling areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 290 | Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 300 | Machinery: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 310 | Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 320 | Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 330 | Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 340 | Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 350 | Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 360 | Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 370 | Leaks and spills: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Non-Compliance

| | | | | |
|-----|--|--------------------------|--------------------------|-------------------------------------|
| 390 | Free of incidents of observed non-compliance not already identified above? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
|-----|--|--------------------------|--------------------------|-------------------------------------|

Additional Control Measures

| | | | | |
|-----|--|--------------------------|--------------------------|-------------------------------------|
| 410 | Are permit requirements satisfied with existing control measure(s)? If "No" describe additional control measures needed. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
|-----|--|--------------------------|--------------------------|-------------------------------------|

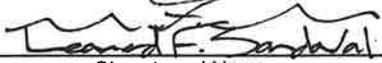
Labor

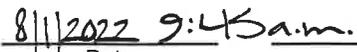
| Labor | Assigned | Work Date | Reg Hrs | OT Hrs | Other Hrs |
|------------------|---------------|-----------|---------|--------|-----------|
| Leonard Sandoval | 7/29/2022 / 1 | | | | |

Labor Report

Completed: _____

Report: _____



Signature / Name

8/1/2022 9:45 a.m.
Date

Signature / Name

Date

I confirm the information as recorded is true, accurate and complete.

CERTIFICATION STATEMENT

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information contained therein. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information contained is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

(Signatory must meet definition in Section B.11.A, eg. FOD, Ops Mgr, EPC Group or Team Leader)

Print name and title: DAVID E. TRULLO U1 - OPS. MGR.

Signature: D. E. Trullo Date: 8-26-22

*Notes: The sediment retention pond is full of stormwater runoff. Milling of the paved roadway from the East end of Enewetak Rd to Diamond Drive is scheduled to start today. The asphalt millings are scheduled to be delivered to the TA-61 Millings staging area.

Maintenance Details

Requested: 9/13/2022 3:45:00 PM
Procedure: MSGP Routine Facility Inspection (EPC-CP-QP-2108 R0 Form 1)
Last PM: 8/1/2022
Project: Routine Facility Inspections September 2022 (P-MSGP-RI-5599)
Reason: 2022 September Inspections

Target: 9/30/2022
Priority/Type: / Inspection
Department: Utilities and Infrastructure

MSGP Program
 RG200.5
 TA-60 Asphalt Batch Plant

*Temp. 58°F High of 84°F
 Clear Sunny
 Wind - Less than 5 mph
 9:22 a.m.*

Tasks

| # | Description | Meas. | No | N/A | Yes |
|---|--|-------|--------------------------|-------------------------------------|-------------------------------------|
| Weather Information | | | | | |
| 20 | Describe the weather at time of inspection and document the temperature (F°). | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Within the Facility Boundary | | | | | |
| 40 | Is the facility free of previously unidentified discharges from and/or pollutants that have occurred since the last inspection If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 50 | If "No" has a CAR been previously initiated for this new discharge? | | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 60 | Is the facility free of discharge of pollutants at the time of inspection? If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 70 | Is the facility free of evidence of, or the potential for, pollutants entering the drainage system. If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Outfall Inspection (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant task comment) | | | | | |
| 90 | Monitored Outfall [043] Free of Evidence of Erosion? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 100 | Monitored Outfall [043] Flow Dissipation Devices Operating Effectively? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 110 | Monitored Outfall [043] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 120 | Monitored Outfall [043] Free of any unauthorized non-stormwater discharges? If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Control Measures (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant task comments). | | | | | |
| 140 | Rip Rap [6000104060005] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 150 | Rip Rap [6000104060012] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 160 | Detention Pond [6000111020001] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 170 | Earthen Berm [6000103010009] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 180 | Base Course Berm [6000103020004] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 190 | Base Course Berm [6000103020006] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 200 | Coir Log [6000103140011] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 210 | Rock Berm [6000103120010] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 220 | Rock Berm [6000103120013] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Area/Activity exposed to stormwater (identify needed maintenance or a description of corrective actions in relevant task comment).

| | | | | |
|------------------------------------|---|--------------------------|-------------------------------------|-------------------------------------|
| 240 | Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 250 | Transfer areas for substances in bulk: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 260 | Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 270 | Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 280 | Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 290 | Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 300 | Fueling areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 310 | Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 320 | Machinery: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 330 | Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 340 | Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 350 | Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 360 | Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 370 | Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 380 | Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 390 | Leaks and spills: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Non-Compliance | | | | |
| 410 | Free of incidents of observed non-compliance not already identified above? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Additional Control Measures | | | | |
| 430 | Are permit requirements satisfied with existing control measure(s)? If "No" describe additional control measures needed. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Labor Report

Completed: _____

Report: _____

Leand F. Sandak

 Signature / Name 9/6/2022 9:40 a.m. Date

 Signature / Name

 Date

I confirm the information as recorded is true, accurate and complete.

CERTIFICATION STATEMENT

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information contained therein. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information contained is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

(Signatory must meet definition in Section B.11.A, eg. FOD, Ops Mgr, EPC Group or Team Leader)

Print name and title: DAVID E. TRWILLO U1-OPS MGR.

Signature:  Date: 9-20-22

* Note: Sediment Retention pond is dry.

| | | | | |
|------------------------------------|---|--------------------------|-------------------------------------|-------------------------------------|
| | operating)? If "No" describe. | | | |
| 250 | Transfer areas for substances in bulk: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 260 | Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 270 | Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 280 | Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 290 | Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 300 | Fueling areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 310 | Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 320 | Machinery: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 330 | Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 340 | Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 350 | Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 360 | Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 370 | Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 380 | Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 390 | Leaks and spills: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Non-Compliance | | | | |
| 410 | Free of incidents of observed non-compliance not already identified above? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Additional Control Measures | | | | |
| 430 | Are permit requirements satisfied with existing control measure(s)? If "No" describe additional control measures needed. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Labor

| Labor | Assigned | Work Date | Reg Hrs | OT Hrs | Other Hrs |
|------------------|---------------|-----------|---------|--------|-----------|
| Leonard Sandoval | 9/29/2022 / 1 | | | | |

Labor Report

Completed: _____

Report:

Leonard F. Sandoval 10/3/2022 9:27 a.m.

Signature / Name

Date

Signature / Name

Date

I confirm the information as recorded is true, accurate and complete.

CERTIFICATION STATEMENT

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information contained therein. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the

information contained is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

(Signatory must meet definition in Section B.11.A, eg. FOD, Ops Mgr, EPC Group or Team Leader)

Print name and title: DAVID TRUJILLO UI-OPS. MGR.

Signature:  Date: 10-21-22

comment).

| | | | | |
|-----|---|-------------------------------------|-------------------------------------|-------------------------------------|
| 240 | Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 250 | Transfer areas for substances in bulk: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 260 | Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 270 | Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 280 | Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 290 | Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 300 | Fueling areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 310 | Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 320 | Machinery: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 330 | Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 340 | Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 350 | Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 360 | Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 370 | Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 380 | Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If "No" describe. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 390 | Leaks and spills: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Refer to Labor Report

Non-Compliance

| | | | | |
|-----|--|--------------------------|--------------------------|-------------------------------------|
| 410 | Free of incidents of observed non-compliance not already identified above? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
|-----|--|--------------------------|--------------------------|-------------------------------------|

Additional Control Measures

| | | | | |
|-----|--|--------------------------|--------------------------|-------------------------------------|
| 430 | Are permit requirements satisfied with existing control measure(s)? If "No" describe additional control measures needed. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
|-----|--|--------------------------|--------------------------|-------------------------------------|

Labor

| Labor | Assigned | Work Date | Reg Hrs | OT Hrs | Other Hrs |
|------------------|----------------|-----------|---------|--------|-----------|
| Leonard Sandoval | 11/1/2022 / 14 | | | | |

Labor Report

Completed: _____

Report:

Within the construction site of the new ABP there is a trash bin w/ plastic of trash on the ground. At the E. end of the site there is a pile of old T posts, old metal signs, a section of broken cable and some electrical wiring entered into the MSGP tracking database as C&E 2156.

Leonard F. Sandoval *11/2/2022 2:40 p.m.*

I confirm the information as recorded is true, accurate and complete.

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information contained therein. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information contained is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

(Signatory must meet definition in Section B.11.A, eg. FOD, Ops Mgr, EPC Group or Team Leader)

Print name and title: DAVID TRUJILLO UI - OPS. MGR.

Signature: D. Trujillo Date: 11-18-22

A water truck was spraying water within the CGP site for dust suppression during the inspection.

Maintenance Details

Requested: 11/28/2022 12:52:34 PM
Procedure: MSGP Routine Facility Inspection (EPC-CP-QP-2108 R0 Form 1)
Last PM: 11/2/2022
Project: Routine Facility Inspections December 2022 (P-MSGP-RI-5613)
Reason: 2022 December Inspection

Target: 12/1/2022
Priority/Type: Normal / Inspection
Department: Utilities and Infrastructure

MSGP Program
 RG200.5
 TA-60 Asphalt Batch Plant

*12/20/2022 Temp. 19°F / High of 41°F
 Clear / Sunny
 Wind 5-10 mph
 11:35 a.m.*

Contact:
Phone:

Tasks

| # | Description | Meas. | No | N/A | Yes |
|---|--|-------|--------------------------|-------------------------------------|-------------------------------------|
| Weather Information | | | | | |
| 20 | Describe the weather at time of inspection and document the temperature (F°). | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Within the Facility Boundary | | | | | |
| 40 | Is the facility free of previously unidentified discharges from and/or pollutants that have occurred since the last inspection If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 50 | If "No" has a CAR been previously initiated for this new discharge? | | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 60 | Is the facility free of discharge of pollutants at the time of inspection? If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 70 | Is the facility free of evidence of, or the potential for, pollutants entering the drainage system. If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Outfall Inspection (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant task comment) | | | | | |
| 90 | Monitored Outfall [043] Free of Evidence of Erosion? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 100 | Monitored Outfall [043] Flow Dissipation Devices Operating Effectively? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 110 | Monitored Outfall [043] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 120 | Monitored Outfall [043] Free of any unauthorized non-stormwater discharges? If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Control Measures (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant task comments). | | | | | |
| 140 | Rip Rap [6000104060005] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 150 | Rip Rap [6000104060012] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 160 | Detention Pond [6000111020001] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 170 | Earthen Berm [6000103010009] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 180 | Base Course Berm [6000103020004] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 190 | Base Course Berm [6000103020006] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 200 | Coir Log [6000103140011] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 210 | Rock Berm [6000103120010] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 220 | Rock Berm [6000103120013] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Area/Activity exposed to stormwater (identify needed maintenance or a description of corrective actions in relevant task)

comment).

| | | | | |
|-----|---|-------------------------------------|-------------------------------------|-------------------------------------|
| 240 | Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 250 | Transfer areas for substances in bulk: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 260 | Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 270 | Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 280 | Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 290 | Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 300 | Fueling areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 310 | Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 320 | Machinery: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 330 | Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 340 | Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 350 | Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 360 | Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 370 | Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 380 | Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If "No" describe. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 390 | Leaks and spills: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Non-Compliance

| | | | | |
|-----|--|--------------------------|--------------------------|-------------------------------------|
| 410 | Free of incidents of observed non-compliance not already identified above? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
|-----|--|--------------------------|--------------------------|-------------------------------------|

Additional Control Measures

| | | | | |
|-----|--|--------------------------|--------------------------|-------------------------------------|
| 430 | Are permit requirements satisfied with existing control measure(s)? If "No" describe additional control measures needed. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
|-----|--|--------------------------|--------------------------|-------------------------------------|

Labor

| Labor | Assigned | Work Date | Reg Hrs | OT Hrs | Other Hrs |
|------------------|----------------|-----------|---------|--------|-----------|
| Leonard Sandoval | 11/28/2022 / 1 | | | | |

Labor Report

Completed: _____

Report:

At the East end of the ABP there's some electrical wires, smashed water bottles, pieces of plywood & at the center of the site some metal pipes that had a housekeeping issue & entered into the MSGP tracking database as CA# 2204.

Leonard Sandoval 12/20/2022 12:30 pm.

Signature / Name Date Signature / Name Date

I confirm the information as recorded is true, accurate and complete.

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information contained therein. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information contained is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

(Signatory must meet definition in Section B.11.A, eg. FOD, Ops Mgr, EPC Group or Team Leader)

Print name and title: Phillip Ubbarr: Operations Mgr.

Signature: T. Ubbarr Date: 1/4/23

Holly Wheeler EPC-CP was present during the annual MSGP inspection.

Maintenance Details

Requested: 6/4/2021 12:38:54 PM **Target:** 6/30/2021
Procedure: MSGP Routine Facility Inspection (EPC-CP-QP-2108 R0 Form 1) **Priority/Type:** Normal / Inspection
Last PM: 4/21/2021 **Department:** Utilities and Infrastructure
Project: Routine Facility Inspections June 2021 (P-MSGP-RI-5499) **Contact:**
Reason: 2021 June Inspections **Phone:**

 MSGP Program
 RG200.5
 TA-60 Roads and Grounds

*6/4/2021 Temp. 56°F High of 83°F
 Partly Cloudy
 Wind - Less than 5mph
 8:09 a.m.*

Tasks

| # | Description | Meas. | No | N/A | Yes |
|---|--|-------|--------------------------|-------------------------------------|-------------------------------------|
| Weather Information | | | | | |
| 20 | Describe the weather at time of inspection and document the temperature (F°). | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Within the Facility Boundary | | | | | |
| 40 | Is the facility free of previously unidentified discharges from and/or pollutants that have occurred since the last inspection If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 50 | If "No" has a CAR been previously initiated for this new discharge? | | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 60 | Is the facility free of discharge of pollutants at the time of inspection? If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 70 | Is the facility free of evidence of, or the potential for, pollutants entering the drainage system. If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Outfall Inspection (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant task comment) | | | | | |
| 90 | Monitored Outfall [031] DO: Free of Evidence of Erosion? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 100 | Monitored Outfall [031] DO: Flow Dissipation Devices Operating Effectively? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 110 | Monitored Outfall [031] DO: Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 120 | Monitored Outfall [031] DO: Free of any unauthorized non-stormwater discharges? If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 130 | Monitored Outfall [032] Free of Evidence of Erosion? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 140 | Monitored Outfall [032] Flow Dissipation Devices Operating Effectively? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 150 | Monitored Outfall [032] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 160 | Monitored Outfall [032] Free of any unauthorized non-stormwater discharges? If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 170 | Monitored Outfall [037] Free of Evidence of Erosion? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 180 | Monitored Outfall [037] Flow Dissipation Devices Operating Effectively? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 190 | Monitored Outfall [037] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 200 | Monitored Outfall [037] Free of any unauthorized non-stormwater discharges? If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 210 | Monitored Outfall [039] Free of Evidence of Erosion? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 220 | Monitored Outfall [039] Flow Dissipation Devices Operating Effectively? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 230 | Monitored Outfall [039] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 240 | Monitored Outfall [039] Free of any unauthorized non-stormwater discharges? If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 250 | Monitored Outfall [042] Free of Evidence of Erosion? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 260 | Monitored Outfall [042] Flow Dissipation Devices Operating Effectively? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 270 | Monitored Outfall [042] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

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| 280 | Monitored Outfall [042] Free of any unauthorized non-stormwater discharges? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 290 | Substantially Identical Outfall [030] Free of Evidence of Erosion? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 300 | Substantially Identical Outfall [030] Flow Dissipation Devices Operating Effectively? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 310 | Substantially Identical Outfall [030] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 320 | Substantially Identical Outfall [030] Free of any unauthorized non-stormwater discharges? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 330 | Substantially Identical Outfall [033] Free of Evidence of Erosion? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 340 | Substantially Identical Outfall [033] Flow Dissipation Devices Operating Effectively? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 350 | Substantially Identical Outfall [033] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 360 | Substantially Identical Outfall [033] Free of any unauthorized non-stormwater discharges? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 370 | Substantially Identical Outfall [034] Free of Evidence of Erosion? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 380 | Substantially Identical Outfall [034] Flow Dissipation Devices Operating Effectively? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 390 | Substantially Identical Outfall [034] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 400 | Substantially Identical Outfall [034] Free of any unauthorized non-stormwater discharges? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 410 | Substantially Identical Outfall [035] Free of Evidence of Erosion? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 420 | Substantially Identical Outfall [035] Flow Dissipation Devices Operating Effectively? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 430 | Substantially Identical Outfall [035] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 440 | Substantially Identical Outfall [035] Free of any unauthorized non-stormwater discharges? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Control Measures (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant task comments).

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| 460 | Asphalt Berm [6000303040052] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 470 | Asphalt Berm [6000303040062] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 480 | Rock Channel/Swale [6000304030016] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 490 | Rock Channel/Swale [6000304030039] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 500 | Rock Channel/Swale [6000304030040] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 510 | Rock Channel/Swale [6000304030060] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 520 | Rip Rap [6000304060011] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 530 | Rip Rap [6000304060014] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 540 | Rip Rap [6000304060022] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 550 | Rip Rap [6000304060025] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 560 | Rip Rap [6000304060026] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 570 | Rip Rap [6000304060027] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 580 | Rip Rap [6000304060029] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 590 | Rip Rap [6000304060032] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 600 | Rip Rap [6000304060033] Control Measure is operating effectively? If "No" describe | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

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| | condition & need for Maintenance, Repair, or Replacement. | | | |
| 610 | Rip Rap [6000304060066] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 620 | Earthen Berm [6000303010034] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 630 | Earthen Berm [6000303010036] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 640 | Earthen Berm [6000303010037] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 650 | Earthen Berm [6000303010038] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 660 | Earthen Berm [6000303010043] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 670 | Earthen Berm [6000303010075] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 680 | Straw Wattle [6000303060078] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 690 | Sediment Basin [6000305020018] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 700 | Sediment Basin [6000305020041] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 710 | Rock Check Dam [6000306010001] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 720 | Rock Check Dam [6000306010002] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 730 | Rock Check Dam [6000306010003] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 740 | Rock Check Dam [6000306010004] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 750 | Trench Drain [6000309040057] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 760 | Jersey Barriers [6000303170015] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 770 | EnviroSoxx w/ MetalLoxx [6000303200086] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 780 | EnviroSoxx w/ MetalLoxx [6000303200087] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 790 | EnviroSoxx w/ MetalLoxx [6000303200088] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 800 | EnviroSoxx w/ MetalLoxx [6000303200089] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 810 | EnviroSoxx w/ MetalLoxx [6000303200090] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 820 | EnviroSoxx w/ MetalLoxx [6000303200091] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 830 | EnviroSoxx w/ MetalLoxx [6000303200092] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 840 | EnviroSoxx w/ MetalLoxx [6000303200093] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 850 | EnviroSoxx w/ MetalLoxx [6000303200094] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 860 | Permanent Vegetation Vegetative Buffer Strip [6000302030042] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 870 | TRM-Lined Swale [6000304080061] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Area/Activity exposed to stormwater (identify needed maintenance or a description of corrective actions in relevant task comment). | | | | |
| 890 | Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 900 | Transfer areas for substances in bulk: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

| | | | | |
|------------------------------------|---|--------------------------|-------------------------------------|-------------------------------------|
| 910 | Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 920 | Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 930 | Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 940 | Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 950 | Fueling areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 960 | Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 970 | Machinery: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 980 | Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 990 | Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 1000 | Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 1010 | Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1020 | Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1030 | Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1040 | Leaks and spills: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1050 | Sector P [60003-] Vehicle storage/maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Non-Compliance | | | | |
| 1070 | Free of incidents of observed non-compliance not already identified above? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Additional Control Measures | | | | |
| 1090 | Are permit requirements satisfied with existing control measure(s)? If "No" describe additional control measures needed. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

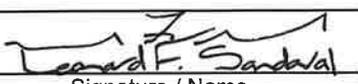
Labor

| Labor | Assigned | Work Date | Reg Hrs | OT Hrs | Other Hrs |
|------------------|--------------|-----------|---------|--------|-----------|
| Leonard Sandoval | 6/4/2021 / 1 | | | | |

Labor Report

Completed: _____

Report:


6/24/2021 9:22 a.m.

Signature / Name Date Signature / Name Date

I confirm the information as recorded is true, accurate and complete.

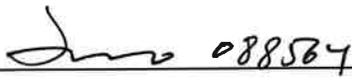
CERTIFICATION STATEMENT

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering information, the

information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations".

(Signatory must meet definition in Section B.11.A, eg. FOD, Ops Mgr, DESH Group Leader, EPC Group Leader)

Print name and title: Robert M. Ortiz VI-OPS Manager

Signature:  088564 Date: 7/6/2021

Maintenance Details

Requested: 7/1/2021 5:37:00 PM
Procedure: MSGP Routine Facility Inspection (EPC-CP-QP-2108 R0 Form 1)
Last PM: 6/16/2021
Project: Routine Facility Inspections July 2021 (P-MSGP-RI-5500)
Reason: 2021 July Inspections

Target: 7/31/2021
Priority/Type: Normal / Inspection
Department: Utilities and Infrastructure

MSGP Program
 RG200.5
 TA-60 Roads and Grounds

Contact:
Phone:

*Temp 60°F High of 80°F
 Fair to Partly Cloudy
 50% chance of rain
 Wind - Less than 5 mph
 8:00 a.m.*

Tasks

| # | Description | Meas. | No | N/A | Yes |
|---|--|-------|--------------------------|-------------------------------------|-------------------------------------|
| Weather Information | | | | | |
| 20 | Describe the weather at time of inspection and document the temperature (F°). | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Within the Facility Boundary | | | | | |
| 40 | Is the facility free of previously unidentified discharges from and/or pollutants that have occurred since the last inspection If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 50 | If "No" has a CAR been previously initiated for this new discharge? | | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 60 | Is the facility free of discharge of pollutants at the time of inspection? If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 70 | Is the facility free of evidence of, or the potential for, pollutants entering the drainage system. If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Outfall Inspection (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant task comment) | | | | | |
| 90 | Monitored Outfall [031] DO: Free of Evidence of Erosion? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 100 | Monitored Outfall [031] DO: Flow Dissipation Devices Operating Effectively? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 110 | Monitored Outfall [031] DO: Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 120 | Monitored Outfall [031] DO: Free of any unauthorized non-stormwater discharges? If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 130 | Monitored Outfall [032] Free of Evidence of Erosion? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 140 | Monitored Outfall [032] Flow Dissipation Devices Operating Effectively? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 150 | Monitored Outfall [032] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 160 | Monitored Outfall [032] Free of any unauthorized non-stormwater discharges? If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 170 | Monitored Outfall [036] Free of Evidence of Erosion? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 180 | Monitored Outfall [036] Flow Dissipation Devices Operating Effectively? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 190 | Monitored Outfall [036] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 200 | Monitored Outfall [036] Free of any unauthorized non-stormwater discharges? If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 210 | Monitored Outfall [037] Free of Evidence of Erosion? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 220 | Monitored Outfall [037] Flow Dissipation Devices Operating Effectively? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 230 | Monitored Outfall [037] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 240 | Monitored Outfall [037] Free of any unauthorized non-stormwater discharges? If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 250 | Monitored Outfall [039] Free of Evidence of Erosion? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 260 | Monitored Outfall [039] Flow Dissipation Devices Operating Effectively? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 270 | Monitored Outfall [039] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

| | | | | |
|-----|--|--------------------------|--------------------------|-------------------------------------|
| 280 | Monitored Outfall [039] Free of any unauthorized non-stormwater discharges? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 290 | Monitored Outfall [042] Free of Evidence of Erosion? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 300 | Monitored Outfall [042] Flow Dissipation Devices Operating Effectively? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 310 | Monitored Outfall [042] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 320 | Monitored Outfall [042] Free of any unauthorized non-stormwater discharges? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 330 | Substantially Identical Outfall [030] Free of Evidence of Erosion? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 340 | Substantially Identical Outfall [030] Flow Dissipation Devices Operating Effectively? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 350 | Substantially Identical Outfall [030] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 360 | Substantially Identical Outfall [030] Free of any unauthorized non-stormwater discharges? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 370 | Substantially Identical Outfall [033] Free of Evidence of Erosion? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 380 | Substantially Identical Outfall [033] Flow Dissipation Devices Operating Effectively? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 390 | Substantially Identical Outfall [033] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 400 | Substantially Identical Outfall [033] Free of any unauthorized non-stormwater discharges? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 410 | Substantially Identical Outfall [034] Free of Evidence of Erosion? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 420 | Substantially Identical Outfall [034] Flow Dissipation Devices Operating Effectively? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 430 | Substantially Identical Outfall [034] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 440 | Substantially Identical Outfall [034] Free of any unauthorized non-stormwater discharges? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 450 | Substantially Identical Outfall [035] Free of Evidence of Erosion? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 460 | Substantially Identical Outfall [035] Flow Dissipation Devices Operating Effectively? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 470 | Substantially Identical Outfall [035] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 480 | Substantially Identical Outfall [035] Free of any unauthorized non-stormwater discharges? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 490 | Substantially Identical Outfall [038] Free of Evidence of Erosion? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 500 | Substantially Identical Outfall [038] Flow Dissipation Devices Operating Effectively? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 510 | Substantially Identical Outfall [038] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 520 | Substantially Identical Outfall [038] Free of any unauthorized non-stormwater discharges? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 530 | Substantially Identical Outfall [040] Free of Evidence of Erosion? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 540 | Substantially Identical Outfall [040] Flow Dissipation Devices Operating Effectively? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 550 | Substantially Identical Outfall [040] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 560 | Substantially Identical Outfall [040] Free of any unauthorized non-stormwater discharges? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 570 | Substantially Identical Outfall [041] Free of Evidence of Erosion? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 580 | Substantially Identical Outfall [041] Flow Dissipation Devices Operating Effectively? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 590 | Substantially Identical Outfall [041] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 600 | Substantially Identical Outfall [041] Free of any unauthorized non-stormwater discharges? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Control Measures (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant task comments).

| | | | | |
|-----|--|--------------------------|--------------------------|-------------------------------------|
| 620 | Asphalt Berm [6000303040052] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
|-----|--|--------------------------|--------------------------|-------------------------------------|

| | | | | |
|------|--|--------------------------|--------------------------|-------------------------------------|
| 940 | EnviroSoxx w/ MetalLoxx [6000303200086] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 950 | EnviroSoxx w/ MetalLoxx [6000303200087] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 960 | EnviroSoxx w/ MetalLoxx [6000303200088] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 970 | EnviroSoxx w/ MetalLoxx [6000303200089] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 980 | EnviroSoxx w/ MetalLoxx [6000303200090] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 990 | EnviroSoxx w/ MetalLoxx [6000303200091] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1000 | EnviroSoxx w/ MetalLoxx [6000303200092] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1010 | EnviroSoxx w/ MetalLoxx [6000303200093] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1020 | EnviroSoxx w/ MetalLoxx [6000303200094] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1030 | Permanent Vegetation Vegetative Buffer Strip [6000302030042] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1040 | TRM-Lined Swale [6000304080061] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Area/Activity exposed to stormwater (identify needed maintenance or a description of corrective actions in relevant task comment).

| | | | | |
|------|---|--------------------------|-------------------------------------|-------------------------------------|
| 1060 | Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1070 | Transfer areas for substances in bulk: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1080 | Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 1090 | Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1100 | Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 1110 | Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1120 | Fueling areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1130 | Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 1140 | Machinery: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1150 | Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1160 | Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 1170 | Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 1180 | Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1190 | Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1200 | Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1210 | Leaks and spills: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1220 | Sector P [60003-] Vehicle storage/maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Non-Compliance

| | | | | |
|------|--|--------------------------|--------------------------|-------------------------------------|
| 1240 | Free of incidents of observed non-compliance not already identified above? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
|------|--|--------------------------|--------------------------|-------------------------------------|

Additional Control Measures

1260 Are permit requirements satisfied with existing control measure(s)? If "No" describe additional control measures needed.

Labor

| Labor | Assigned | Work Date | Reg Hrs | OT Hrs | Other Hrs |
|------------------|--------------|-----------|---------|--------|-----------|
| Leonard Sandoval | 7/1/2021 / 1 | | | | |

Labor Report

Completed: _____

Report: _____

Leonard F. Sandoval
Signature / Name

7/22/2021 9:38 a.m.
Date

Signature / Name

Date

I confirm the information as recorded is true, accurate and complete.

CERTIFICATION STATEMENT

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations".

(Signatory must meet definition in Section B.11.A, eg. FOD, Ops Mgr, DESH Group Leader, EPC Group Leader)

Print name and title: Phillip Ulbarrri UI-OPS-MGR GL

Signature: *Phillip Ulbarrri* Date: 7/28/21

Maintenance Details

Requested: 8/4/2021 12:19:00 PM
Procedure: MSGP Routine Facility Inspection (EPC-CP-QP-2108 R0 Form 1)
Last PM: 7/22/2021
Project: Routine Facility Inspections August 2021 (P-MSGP-RI-5510)
Reason: 2021 August Inspections

Target: 8/31/2021
Priority/Type: / Inspection
Department: Utilities and Infrastructure

MSGP Program
 RG200.5
 TA-60 Roads and Grounds

Contact:
Phone:

*8/18/2021 Temp. 56°F High of 81°F
 Fair to Partly Cloudy
 Wind - Less than SmpH
 8:04 a.m.*

Tasks

| # | Description | Meas. | No | N/A | Yes |
|---|--|-------|--------------------------|-------------------------------------|-------------------------------------|
| Weather Information | | | | | |
| 20 | Describe the weather at time of inspection and document the temperature (F°). | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Within the Facility Boundary | | | | | |
| 40 | Is the facility free of previously unidentified discharges from and/or pollutants that have occurred since the last inspection If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 50 | If "No" has a CAR been previously initiated for this new discharge? | | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 60 | Is the facility free of discharge of pollutants at the time of inspection? If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 70 | Is the facility free of evidence of, or the potential for, pollutants entering the drainage system. If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Outfall Inspection (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant task comment) | | | | | |
| 90 | Monitored Outfall [031] DO: Free of Evidence of Erosion? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 100 | Monitored Outfall [031] DO: Flow Dissipation Devices Operating Effectively? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 110 | Monitored Outfall [031] DO: Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 120 | Monitored Outfall [031] DO: Free of any unauthorized non-stormwater discharges? If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 130 | Monitored Outfall [032] Free of Evidence of Erosion? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 140 | Monitored Outfall [032] Flow Dissipation Devices Operating Effectively? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 150 | Monitored Outfall [032] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 160 | Monitored Outfall [032] Free of any unauthorized non-stormwater discharges? If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 170 | Monitored Outfall [037] Free of Evidence of Erosion? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 180 | Monitored Outfall [037] Flow Dissipation Devices Operating Effectively? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 190 | Monitored Outfall [037] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 200 | Monitored Outfall [037] Free of any unauthorized non-stormwater discharges? If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 210 | Monitored Outfall [039] Free of Evidence of Erosion? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 220 | Monitored Outfall [039] Flow Dissipation Devices Operating Effectively? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 230 | Monitored Outfall [039] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 240 | Monitored Outfall [039] Free of any unauthorized non-stormwater discharges? If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

| | | | | |
|-----|--|--------------------------|--------------------------|-------------------------------------|
| 250 | Monitored Outfall [042] Free of Evidence of Erosion? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 260 | Monitored Outfall [042] Flow Dissipation Devices Operating Effectively? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 270 | Monitored Outfall [042] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 280 | Monitored Outfall [042] Free of any unauthorized non-stormwater discharges? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 290 | Substantially Identical Outfall [030] Free of Evidence of Erosion? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 300 | Substantially Identical Outfall [030] Flow Dissipation Devices Operating Effectively? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 310 | Substantially Identical Outfall [030] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 320 | Substantially Identical Outfall [030] Free of any unauthorized non-stormwater discharges? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 330 | Substantially Identical Outfall [033] Free of Evidence of Erosion? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 340 | Substantially Identical Outfall [033] Flow Dissipation Devices Operating Effectively? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 350 | Substantially Identical Outfall [033] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 360 | Substantially Identical Outfall [033] Free of any unauthorized non-stormwater discharges? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 370 | Substantially Identical Outfall [034] Free of Evidence of Erosion? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 380 | Substantially Identical Outfall [034] Flow Dissipation Devices Operating Effectively? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 390 | Substantially Identical Outfall [034] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 400 | Substantially Identical Outfall [034] Free of any unauthorized non-stormwater discharges? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 410 | Substantially Identical Outfall [035] Free of Evidence of Erosion? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 420 | Substantially Identical Outfall [035] Flow Dissipation Devices Operating Effectively? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 430 | Substantially Identical Outfall [035] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 440 | Substantially Identical Outfall [035] Free of any unauthorized non-stormwater discharges? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Control Measures (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant task comments).

| | | | | |
|-----|--|--------------------------|--------------------------|-------------------------------------|
| 460 | Asphalt Berm [6000303040052] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 470 | Asphalt Berm [6000303040062] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 480 | Rock Channel/Swale [6000304030016] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 490 | Rock Channel/Swale [6000304030039] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 500 | Rock Channel/Swale [6000304030040] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 510 | Rock Channel/Swale [6000304030060] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 520 | Rock Channel/Swale [6000304030095] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 530 | Rip Rap [6000304060011] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 540 | Rip Rap [6000304060014] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 550 | Rip Rap [6000304060022] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 560 | Rip Rap [6000304060025] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 570 | Rip Rap [6000304060026] Control Measure is operating effectively? If "No" describe | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

| | | | | |
|-----|---|--------------------------|--------------------------|-------------------------------------|
| | condition & need for Maintenance, Repair, or Replacement. | | | |
| 580 | Rip Rap [6000304060027] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 590 | Rip Rap [6000304060029] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 600 | Rip Rap [6000304060032] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 610 | Rip Rap [6000304060033] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 620 | Rip Rap [6000304060066] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 630 | Earthen Berm [6000303010034] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 640 | Earthen Berm [6000303010036] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 650 | Earthen Berm [6000303010037] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 660 | Earthen Berm [6000303010038] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 670 | Earthen Berm [6000303010043] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 680 | Earthen Berm [6000303010075] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 690 | Straw Wattle [6000303060078] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 700 | Sediment Basin [6000305020018] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 710 | Sediment Basin [6000305020041] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 720 | Rock Check Dam [6000306010001] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 730 | Rock Check Dam [6000306010002] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 740 | Rock Check Dam [6000306010003] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 750 | Rock Check Dam [6000306010004] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 760 | Trench Drain [6000309040057] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 770 | Jersey Barriers [6000303170015] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 780 | EnviroSoxx w/ MetalLoxx [6000303200086] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 790 | EnviroSoxx w/ MetalLoxx [6000303200087] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 800 | EnviroSoxx w/ MetalLoxx [6000303200088] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 810 | EnviroSoxx w/ MetalLoxx [6000303200089] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 820 | EnviroSoxx w/ MetalLoxx [6000303200090] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 830 | EnviroSoxx w/ MetalLoxx [6000303200091] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 840 | EnviroSoxx w/ MetalLoxx [6000303200092] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 850 | EnviroSoxx w/ MetalLoxx [6000303200093] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 860 | EnviroSoxx w/ MetalLoxx [6000303200094] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 870 | Permanent Vegetation Vegetative Buffer Strip [6000302030042] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

| | | | | |
|---|---|-------------------------------------|-------------------------------------|-------------------------------------|
| | Replacement. | | | |
| 880 | TRM-Lined Swale [6000304080061] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Area/Activity exposed to stormwater (identify needed maintenance or a description of corrective actions in relevant task comment). | | | | |
| 900 | Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 910 | Transfer areas for substances in bulk: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 920 | Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 930 | Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 940 | Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 950 | Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 960 | Fueling areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 970 | Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 980 | Machinery: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 990 | Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1000 | Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 1010 | Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 1020 | Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1030 | Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1040 | Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If "No" describe. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 1050 | Leaks and spills: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1060 | Sector P [60003-] Vehicle storage/maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Non-Compliance | | | | |
| 1080 | Free of incidents of observed non-compliance not already identified above? If "No" describe. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Additional Control Measures | | | | |
| 1100 | Are permit requirements satisfied with existing control measure(s)? If "No" describe additional control measures needed. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

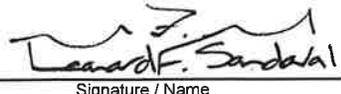
Refer to Later Report

Refer to Later Report

Labor Report

Completed: _____

Report: Leonard Sandoval


8/18/2021 9:30 a.m.

Signature / Name _____ Date _____ Signature / Name _____ Date _____

I confirm the information as recorded is true, accurate and complete.

CERTIFICATION STATEMENT

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations".

(Signatory must meet definition in Section B.11.A, eg. FOD, Ops Mgr, DESH Group Leader, EPC Group Leader)

Print name and title: Phillip Ulbarri UI Operations Mgr.

Signature:  Date: 8/27/21

TA-60-0250 housekeeping along the N & S concrete jersey barriers, E. of 60-0410 transporting, & next to Storage Shed 60-0327 entered into the MSGP tracking database as CAR# 1995.
Next to Storage Shed 60-0327 there is a wood pallet w/ boxes of Quikrete Self Leveling Sealant that needs to be moved into a covered area entered into the MSGP tracking database as CAR# 1996.
In the S. parking lot next to transporting 60-0338 there is erosion from storm water runoff entered into the MSGP tracking database as CAR# 1997.
The sign shop posted the new metal MSGP signs @ TA-60-0250, gate to the Clean Fill Yard, & gate to the TA-61 Millings Staging Area Jan 8/13/2021.

Los Alamos National Laboratory

Work Order MSGP-RI-65145

MSGP Routine Inspection
Printed 8/30/2021 - 5:25 PM

Maintenance Details

Requested: 8/30/2021 5:22:14 PM

Target: 9/30/2021

MSGP Program

Procedure: MSGP Routine Facility Inspection (EPC-CP-QP-2108 R0 Form 1)

Priority/Type: Normal / Inspection

RG200.5

Department: Utilities and Infrastructure

TA-60 Roads and Grounds

Last PM: 8/18/2021

Project: Routine Facility Inspections September 2021 (P-MSGP-RI-5516)

Contact:
Phone:

Reason: MSGP Routine Facility Inspection

*9/27/2021 Temp. 49°F High of 67°F
Partly to Mostly Cloudy
40% chance of rain
Wind - 5 mph
8:30 a.m.*

Tasks

| # | Description | Meas. | No | N/A | Yes |
|---|---|-------|--------------------------|-------------------------------------|-------------------------------------|
| Weather Information | | | | | |
| 20 | Describe the weather at time of inspection and document the temperature (F°). | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Within the Facility Boundary | | | | | |
| 40 | Is the facility free of previously unidentified discharges from and/or pollutants that have occurred since the last inspection? If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 50 | If "No" has a CAR been previously initiated for this new discharge? | | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 60 | Is the facility free of discharge of pollutants at the time of inspection? If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 70 | Is the facility free of evidence of, or the potential for, pollutants entering the drainage system. If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Outfall Inspection (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant task comment) | | | | | |
| 90 | Monitored Outfall [031] DO: Free of Evidence of Erosion? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 100 | Monitored Outfall [031] DO: Flow Dissipation Devices Operating Effectively? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 110 | Monitored Outfall [031] DO: Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 120 | Monitored Outfall [031] DO: Free of any unauthorized non-stormwater discharges? If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 130 | Monitored Outfall [032] Free of Evidence of Erosion? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 140 | Monitored Outfall [032] Flow Dissipation Devices Operating Effectively? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 150 | Monitored Outfall [032] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 160 | Monitored Outfall [032] Free of any unauthorized non-stormwater discharges? If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 170 | Monitored Outfall [037] Free of Evidence of Erosion? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 180 | Monitored Outfall [037] Flow Dissipation Devices Operating Effectively? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 190 | Monitored Outfall [037] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 200 | Monitored Outfall [037] Free of any unauthorized non-stormwater discharges? If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 210 | Monitored Outfall [039] Free of Evidence of Erosion? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 220 | Monitored Outfall [039] Flow Dissipation Devices Operating Effectively? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 230 | Monitored Outfall [039] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 240 | Monitored Outfall [039] Free of any unauthorized non-stormwater discharges? If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 250 | Monitored Outfall [042] Free of Evidence of Erosion? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 260 | Monitored Outfall [042] Flow Dissipation Devices Operating Effectively? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 270 | Monitored Outfall [042] Free of Evidence of Pollutants in Discharges and/or Receiving | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

| | | | | |
|-----|--|--------------------------|--------------------------|-------------------------------------|
| | Water? If "No", describe. | | | |
| 280 | Monitored Outfall [042] Free of any unauthorized non-stormwater discharges? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 290 | Substantially Identical Outfall [030] Free of Evidence of Erosion? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 300 | Substantially Identical Outfall [030] Flow Dissipation Devices Operating Effectively? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 310 | Substantially Identical Outfall [030] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 320 | Substantially Identical Outfall [030] Free of any unauthorized non-stormwater discharges? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 330 | Substantially Identical Outfall [033] Free of Evidence of Erosion? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 340 | Substantially Identical Outfall [033] Flow Dissipation Devices Operating Effectively? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 350 | Substantially Identical Outfall [033] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 360 | Substantially Identical Outfall [033] Free of any unauthorized non-stormwater discharges? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 370 | Substantially Identical Outfall [034] Free of Evidence of Erosion? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 380 | Substantially Identical Outfall [034] Flow Dissipation Devices Operating Effectively? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 390 | Substantially Identical Outfall [034] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 400 | Substantially Identical Outfall [034] Free of any unauthorized non-stormwater discharges? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 410 | Substantially Identical Outfall [035] Free of Evidence of Erosion? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 420 | Substantially Identical Outfall [035] Flow Dissipation Devices Operating Effectively? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 430 | Substantially Identical Outfall [035] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 440 | Substantially Identical Outfall [035] Free of any unauthorized non-stormwater discharges? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Control Measures (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant task comments).

| | | | | |
|-----|--|--------------------------|--------------------------|-------------------------------------|
| 460 | Asphalt Berm [6000303040052] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 470 | Asphalt Berm [6000303040062] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 480 | Rock Channel/Swale [6000304030016] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 490 | Rock Channel/Swale [6000304030039] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 500 | Rock Channel/Swale [6000304030040] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 510 | Rock Channel/Swale [6000304030060] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 520 | Rock Channel/Swale [6000304030095] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 530 | Rock Channel/Swale [6000304030096] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 540 | Rip Rap [6000304060011] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 550 | Rip Rap [6000304060014] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 560 | Rip Rap [6000304060022] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 570 | Rip Rap [6000304060025] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 580 | Rip Rap [6000304060026] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 590 | Rip Rap [6000304060027] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

| | | | | |
|-----|--|--------------------------|--------------------------|-------------------------------------|
| 600 | Rip Rap [6000304060029] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 610 | Rip Rap [6000304060032] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 620 | Rip Rap [6000304060033] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 630 | Rip Rap [6000304060066] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 640 | Earthen Berm [6000303010034] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 650 | Earthen Berm [6000303010036] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 660 | Earthen Berm [6000303010037] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 670 | Earthen Berm [6000303010038] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 680 | Earthen Berm [6000303010043] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 690 | Earthen Berm [6000303010075] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 700 | Straw Wattle [6000303060078] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 710 | Sediment Basin [6000305020018] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 720 | Sediment Basin [6000305020041] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 730 | Rock Check Dam [6000306010001] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 740 | Rock Check Dam [6000306010002] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 750 | Rock Check Dam [6000306010003] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 760 | Rock Check Dam [6000306010004] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 770 | Trench Drain [6000309040057] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 780 | Jersey Barriers [6000303170015] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 790 | EnviroSoxx w/ MetalLoxx [6000303200086] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 800 | EnviroSoxx w/ MetalLoxx [6000303200087] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 810 | EnviroSoxx w/ MetalLoxx [6000303200088] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 820 | EnviroSoxx w/ MetalLoxx [6000303200089] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 830 | EnviroSoxx w/ MetalLoxx [6000303200090] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 840 | EnviroSoxx w/ MetalLoxx [6000303200091] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 850 | EnviroSoxx w/ MetalLoxx [6000303200092] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 860 | EnviroSoxx w/ MetalLoxx [6000303200093] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 870 | EnviroSoxx w/ MetalLoxx [6000303200094] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 880 | Permanent Vegetation Vegetative Buffer Strip [6000302030042] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 890 | TRM-Lined Swale [6000304080061] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Area/Activity exposed to stormwater (identify needed maintenance or a description of corrective actions in relevant task)

comment).

| | | | | |
|------|---|-------------------------------------|-------------------------------------|-------------------------------------|
| 910 | Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 920 | Transfer areas for substances in bulk: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 930 | Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 940 | Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 950 | Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 960 | Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 970 | Fueling areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 980 | Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 990 | Machinery: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1000 | Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1010 | Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 1020 | Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 1030 | Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1040 | Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1050 | Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1060 | Leaks and spills: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 1070 | Sector P [60003-] Vehicle storage/maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Refer to Labor Report

Non-Compliance

| | | | | |
|------|--|--------------------------|--------------------------|-------------------------------------|
| 1090 | Free of incidents of observed non-compliance not already identified above? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
|------|--|--------------------------|--------------------------|-------------------------------------|

Additional Control Measures

| | | | | |
|------|--|--------------------------|--------------------------|-------------------------------------|
| 1110 | Are permit requirements satisfied with existing control measure(s)? If "No" describe additional control measures needed. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
|------|--|--------------------------|--------------------------|-------------------------------------|

Labor

| Labor | Assigned | Work Date | Reg Hrs | OT Hrs | Other Hrs |
|------------------|--------------|-----------|---------|--------|-----------|
| Leonard Sandoval | 9/1/2021 / 1 | | | | |

Labor Report

Completed: _____

Report:

South of salt shed 60-0178 there is a yellow series TIS trackless vehicle # 19209471 used for snow removal w/ a hydraulic fluid leak entered into the MSCP tracking database as CAR # 2013.

Leonard E. Sandoval *9/27/2021 10:45 a.m.*
 Signature / Name Date Signature / Name Date

I confirm the information as recorded is true, accurate and complete.

CERTIFICATION STATEMENT

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations".

(Signatory must meet definition in Section B.11.A, eg. FOD, Ops Mgr, DESH Group Leader, EPC Group Leader)

Print name and title: Phillip Ueberr, UI-OPS-MGR.

Signature: *Phillip Ueberr* Date: 9/30/21

On the North side of TA-60-0250 along the concrete jersey barriers there's a fire hydrant w/ a hose used to fill the water trucks that has a leak on the shutoff valve to the hose and entered into the MSGP tracking database as CAR# 2014.
In the parking lot south of TA-60-0250 there's an open trench with piles of base course on both sides of the trench & a pile of sand with no storm water BMP being used to keep the sand and base course from migrating off site in case of a storm event & entered into the MSGP tracking database as CAR# 2015.

Maintenance Details

Requested: 10/4/2021 11:35:00 AM

Target: 10/31/2021

MSGP Program

Procedure: MSGP Routine Facility Inspection (EPC-CP-QP-2108 R0 Form 1)

Priority/Type: Normal / Inspection

RG200.5

Department: Utilities and Infrastructure

TA-60 Roads and Grounds

Last PM: 8/18/2021 *10/19/2021*

Project: Routine Facility Inspections October 2021 (P-MSGP-RI-5524)

*Temp. 46°F High of 58°F
Cloudy 4/63% chance
of rain
Wind - S to 10 mph
7:55 a.m.*

Contact:
Phone:

Reason: 2021 October Inspections

Tasks

| # | Description | Meas. | No | N/A | Yes |
|---|--|-------|--------------------------|-------------------------------------|-------------------------------------|
| Weather Information | | | | | |
| 20 | Describe the weather at time of inspection and document the temperature (F°). | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Within the Facility Boundary | | | | | |
| 40 | Is the facility free of previously unidentified discharges from and/or pollutants that have occurred since the last inspection If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 50 | If "No" has a CAR been previously initiated for this new discharge? | | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 60 | Is the facility free of discharge of pollutants at the time of inspection? If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 70 | Is the facility free of evidence of, or the potential for, pollutants entering the drainage system. If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Outfall Inspection (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant task comment) | | | | | |
| 90 | Monitored Outfall [031] DO: Free of Evidence of Erosion? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 100 | Monitored Outfall [031] DO: Flow Dissipation Devices Operating Effectively? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 110 | Monitored Outfall [031] DO: Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 120 | Monitored Outfall [031] DO: Free of any unauthorized non-stormwater discharges? If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 130 | Monitored Outfall [032] Free of Evidence of Erosion? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 140 | Monitored Outfall [032] Flow Dissipation Devices Operating Effectively? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 150 | Monitored Outfall [032] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 160 | Monitored Outfall [032] Free of any unauthorized non-stormwater discharges? If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 170 | Monitored Outfall [037] Free of Evidence of Erosion? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 180 | Monitored Outfall [037] Flow Dissipation Devices Operating Effectively? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 190 | Monitored Outfall [037] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 200 | Monitored Outfall [037] Free of any unauthorized non-stormwater discharges? If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 210 | Monitored Outfall [039] Free of Evidence of Erosion? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 220 | Monitored Outfall [039] Flow Dissipation Devices Operating Effectively? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 230 | Monitored Outfall [039] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 240 | Monitored Outfall [039] Free of any unauthorized non-stormwater discharges? If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

| | | | | |
|-----|--|--------------------------|--------------------------|-------------------------------------|
| 250 | Monitored Outfall [042] Free of Evidence of Erosion? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 260 | Monitored Outfall [042] Flow Dissipation Devices Operating Effectively? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 270 | Monitored Outfall [042] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 280 | Monitored Outfall [042] Free of any unauthorized non-stormwater discharges? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 290 | Substantially Identical Outfall [030] Free of Evidence of Erosion? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 300 | Substantially Identical Outfall [030] Flow Dissipation Devices Operating Effectively? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 310 | Substantially Identical Outfall [030] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 320 | Substantially Identical Outfall [030] Free of any unauthorized non-stormwater discharges? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 330 | Substantially Identical Outfall [033] Free of Evidence of Erosion? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 340 | Substantially Identical Outfall [033] Flow Dissipation Devices Operating Effectively? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 350 | Substantially Identical Outfall [033] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 360 | Substantially Identical Outfall [033] Free of any unauthorized non-stormwater discharges? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 370 | Substantially Identical Outfall [034] Free of Evidence of Erosion? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 380 | Substantially Identical Outfall [034] Flow Dissipation Devices Operating Effectively? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 390 | Substantially Identical Outfall [034] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 400 | Substantially Identical Outfall [034] Free of any unauthorized non-stormwater discharges? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 410 | Substantially Identical Outfall [035] Free of Evidence of Erosion? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 420 | Substantially Identical Outfall [035] Flow Dissipation Devices Operating Effectively? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 430 | Substantially Identical Outfall [035] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 440 | Substantially Identical Outfall [035] Free of any unauthorized non-stormwater discharges? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Control Measures (identify needed maintenance and repairs, failed control measures that need replacment, or a description of corrective actions in relevant task comments).

| | | | | |
|-----|--|--------------------------|--------------------------|-------------------------------------|
| 460 | Asphalt Berm [6000303040052] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 470 | Asphalt Berm [6000303040062] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 480 | Rock Channel/Swale [6000304030016] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 490 | Rock Channel/Swale [6000304030039] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 500 | Rock Channel/Swale [6000304030040] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 510 | Rock Channel/Swale [6000304030060] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 520 | Rock Channel/Swale [6000304030095] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 530 | Rock Channel/Swale [6000304030096] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 540 | Rip Rap [6000304060011] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 550 | Rip Rap [6000304060014] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 560 | Rip Rap [6000304060022] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 570 | Rip Rap [6000304060025] Control Measure is operating effectively? If "No" describe | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

- 880 **Permanent Vegetation Vegetative Buffer Strip [6000302030042]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.
- 890 **TRM-Lined Swale [6000304080061]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.

Area/Activity exposed to stormwater (identify needed maintenance or a description of corrective actions in relevant task comment).

- 910 Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.
- 920 Transfer areas for substances in bulk: controls adequate (appropriate, effective, and operating)? If "No" describe.
- 930 Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe.
- 940 Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe.
- 950 Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.
- 960 Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe.
- 970 Fueling areas: controls adequate (appropriate, effective, and operating)? If "No" describe.
- 980 Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If "No" describe.
- 990 Machinery: controls adequate (appropriate, effective, and operating)? If "No" describe.
- 1000 Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If "No" describe.
- 1010 Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If "No" describe.
- 1020 Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If "No" describe.
- 1030 Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If "No" describe.
- 1040 Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If "No" describe.
- 1050 Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If "No" describe.
- 1060 Leaks and spills: controls adequate (appropriate, effective, and operating)? If "No" describe. *Refer to Labor Report*
- 1070 **Sector P [60003-]** Vehicle storage/maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe.

Non-Compliance

- 1090 Free of incidents of observed non-compliance not already identified above? If "No" describe.

Additional Control Measures

- 1110 Are permit requirements satisfied with existing control measure(s)? If "No" describe additional control measures needed.

Labor

| Labor | Assigned | Work Date | Reg Hrs | OT Hrs | Other Hrs |
|------------------|---------------|-----------|---------|--------|-----------|
| Leonard Sandoval | 10/4/2021 / 1 | | | | |

Labor Report

Completed: _____

Report: _____

In the parking area on Sigma Mesa North of the Asphalt Batch Plant there is a Porta John next to some trees that needs to be anchored with ropes & gravel bags so the wind doesn't blow it over & entered into the MSGP tracking database as CAR# 2022.

Leonard F. Sandoval 10/19/2021 9:45 a.m.

Signature / Name

Date

Signature / Name

Date

I confirm the information as recorded is true, accurate and complete.

CERTIFICATION STATEMENT

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations".

(Signatory must meet definition in Section B.11.A, eg. FOD, Ops Mgr, DESH Group Leader, EPC Group Leader)

Print name and title: Philip Ulberri UFI-OPS-MGR

Signature: [Signature] Date: 10/29/21

Diesel fuel Leak on asphalt on the left hand side of the paved road just past the clean fill yard on Sigma Mesa from a fuel line on a John Deere 310 SE Turbo 4X4 backhoe with BE# 804058 & entered into the MSGP tracking database as CAR# 2023.

Maintenance Details

Requested: 11/1/2021 11:37:00 AM **Target:** 11/28/2021
Procedure: MSGP Routine Facility Inspection (EPC-CP-QP-2108 R0 Form 1) **Priority/Type:** Normal / Inspection
Last PM: 9/27/2021 **Department:** Utilities and Infrastructure
Project: Routine Facility Inspections November 2021 (P-MSGP-RI-5530) **Contact:**
Reason: 2021 November Inspections **Phone:**

*Temp. 41°F / High of 59°F
 Above Avg. Temps.
 Clear/Sunny
 Wind - Calm
 8:11 a.m.*

MSGP Program
 RG200.5
 TA-60 Roads and Grounds

Tasks

| # | Description | Meas. | No | N/A | Yes |
|---|---|-------|--------------------------|-------------------------------------|-------------------------------------|
| Weather Information | | | | | |
| 20 | Describe the weather at time of inspection and document the temperature (F°). | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Within the Facility Boundary | | | | | |
| 40 | Is the facility free of previously unidentified discharges from and/or pollutants that have occurred since the last inspection? If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 50 | If "No" has a CAR been previously initiated for this new discharge? | | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 60 | Is the facility free of discharge of pollutants at the time of inspection? If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 70 | Is the facility free of evidence of, or the potential for, pollutants entering the drainage system. If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Outfall Inspection (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant task comment) | | | | | |
| 90 | Monitored Outfall [031] DO: Free of Evidence of Erosion? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 100 | Monitored Outfall [031] DO: Flow Dissipation Devices Operating Effectively? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 110 | Monitored Outfall [031] DO: Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 120 | Monitored Outfall [031] DO: Free of any unauthorized non-stormwater discharges? If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 130 | Monitored Outfall [032] Free of Evidence of Erosion? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 140 | Monitored Outfall [032] Flow Dissipation Devices Operating Effectively? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 150 | Monitored Outfall [032] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 160 | Monitored Outfall [032] Free of any unauthorized non-stormwater discharges? If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 170 | Monitored Outfall [037] Free of Evidence of Erosion? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 180 | Monitored Outfall [037] Flow Dissipation Devices Operating Effectively? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 190 | Monitored Outfall [037] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 200 | Monitored Outfall [037] Free of any unauthorized non-stormwater discharges? If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 210 | Monitored Outfall [039] Free of Evidence of Erosion? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 220 | Monitored Outfall [039] Flow Dissipation Devices Operating Effectively? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 230 | Monitored Outfall [039] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 240 | Monitored Outfall [039] Free of any unauthorized non-stormwater discharges? If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

| | | | | |
|-----|--|--------------------------|--------------------------|-------------------------------------|
| 250 | Monitored Outfall [042] Free of Evidence of Erosion? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 260 | Monitored Outfall [042] Flow Dissipation Devices Operating Effectively? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 270 | Monitored Outfall [042] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 280 | Monitored Outfall [042] Free of any unauthorized non-stormwater discharges? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 290 | Substantially Identical Outfall [030] Free of Evidence of Erosion? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 300 | Substantially Identical Outfall [030] Flow Dissipation Devices Operating Effectively? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 310 | Substantially Identical Outfall [030] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 320 | Substantially Identical Outfall [030] Free of any unauthorized non-stormwater discharges? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 330 | Substantially Identical Outfall [033] Free of Evidence of Erosion? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 340 | Substantially Identical Outfall [033] Flow Dissipation Devices Operating Effectively? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 350 | Substantially Identical Outfall [033] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 360 | Substantially Identical Outfall [033] Free of any unauthorized non-stormwater discharges? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 370 | Substantially Identical Outfall [034] Free of Evidence of Erosion? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 380 | Substantially Identical Outfall [034] Flow Dissipation Devices Operating Effectively? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 390 | Substantially Identical Outfall [034] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 400 | Substantially Identical Outfall [034] Free of any unauthorized non-stormwater discharges? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 410 | Substantially Identical Outfall [035] Free of Evidence of Erosion? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 420 | Substantially Identical Outfall [035] Flow Dissipation Devices Operating Effectively? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 430 | Substantially Identical Outfall [035] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 440 | Substantially Identical Outfall [035] Free of any unauthorized non-stormwater discharges? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Control Measures (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant task comments).

| | | | | |
|-----|--|--------------------------|--------------------------|-------------------------------------|
| 460 | Asphalt Berm [6000303040052] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 470 | Asphalt Berm [6000303040062] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 480 | Rock Channel/Swale [6000304030016] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 490 | Rock Channel/Swale [6000304030039] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 500 | Rock Channel/Swale [6000304030040] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 510 | Rock Channel/Swale [6000304030060] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 520 | Rock Channel/Swale [6000304030095] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 530 | Rock Channel/Swale [6000304030096] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 540 | Rip Rap [6000304060011] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 550 | Rip Rap [6000304060014] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 560 | Rip Rap [6000304060022] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 570 | Rip Rap [6000304060025] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

| | | | | |
|-----|---|--------------------------|--------------------------|-------------------------------------|
| 580 | Rip Rap [6000304060026] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 590 | Rip Rap [6000304060027] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 600 | Rip Rap [6000304060029] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 610 | Rip Rap [6000304060032] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 620 | Rip Rap [6000304060033] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 630 | Rip Rap [6000304060066] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 640 | Earthen Berm [6000303010034] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 650 | Earthen Berm [6000303010036] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 660 | Earthen Berm [6000303010037] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 670 | Earthen Berm [6000303010038] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 680 | Earthen Berm [6000303010043] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 690 | Earthen Berm [6000303010075] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 700 | Straw Wattle [6000303060078] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 710 | Sediment Basin [6000305020018] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 720 | Sediment Basin [6000305020041] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 730 | Rock Check Dam [6000306010001] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 740 | Rock Check Dam [6000306010002] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 750 | Rock Check Dam [6000306010003] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 760 | Rock Check Dam [6000306010004] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 770 | Trench Drain [6000309040057] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 780 | Jersey Barriers [6000303170015] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 790 | EnviroSoxx w/ MetalLoxx [6000303200086] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 800 | EnviroSoxx w/ MetalLoxx [6000303200087] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 810 | EnviroSoxx w/ MetalLoxx [6000303200088] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 820 | EnviroSoxx w/ MetalLoxx [6000303200089] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 830 | EnviroSoxx w/ MetalLoxx [6000303200090] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 840 | EnviroSoxx w/ MetalLoxx [6000303200091] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 850 | EnviroSoxx w/ MetalLoxx [6000303200092] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 860 | EnviroSoxx w/ MetalLoxx [6000303200093] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 870 | EnviroSoxx w/ MetalLoxx [6000303200094] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 880 | Permanent Vegetation Vegetative Buffer Strip [6000302030042] Control Measure is | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.

890 **TRM-Lined Swale [6000304080061]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.

Area/Activity exposed to stormwater (identify needed maintenance or a description of corrective actions in relevant task comment).

910 Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.

920 Transfer areas for substances in bulk: controls adequate (appropriate, effective, and operating)? If "No" describe.

930 Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe.

940 Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe.

950 Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.

960 Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe.

970 Fueling areas: controls adequate (appropriate, effective, and operating)? If "No" describe.

980 Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If "No" describe.

990 Machinery: controls adequate (appropriate, effective, and operating)? If "No" describe.

1000 Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If "No" describe.

1010 Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If "No" describe.

1020 Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If "No" describe.

1030 Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If "No" describe. *Refer to Labor Report*

1040 Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If "No" describe.

1050 Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If "No" describe. *Refer to Labor Report*

1060 Leaks and spills: controls adequate (appropriate, effective, and operating)? If "No" describe.

1070 **Sector P [60003-]** Vehicle storage/maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe.

Non-Compliance

1090 Free of incidents of observed non-compliance not already identified above? If "No" describe.

Additional Control Measures

1110 Are permit requirements satisfied with existing control measure(s)? If "No" describe additional control measures needed.

Labor

| Labor | Assigned | Work Date | Reg Hrs | OT Hrs | Other Hrs |
|------------------|----------|---------------|---------|--------|-----------|
| Leonard Sandoval | | 11/1/2021 / 1 | | | |

Labor Report

Completed: _____

Report: *In front of the roll-up doors to salt shed 60-0118 & at the entrance to transportation 60-0287 there's road salt on the ground that needs to be swept up & put into the salt shed & entered into the MSGP tracking database as CAR # 2049.*

Leonard E. Sandoval
Signature / Name

11/29/2021 9:45a.m.
Date

Signature / Name

Date

I confirm the information as recorded is true, accurate and complete.

CERTIFICATION STATEMENT

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations".

(Signatory must meet definition in Section B.11.A, eg. FOD, Ops Mgr, DESH Group Leader, EPC Group Leader)

Print name and title: Phillip Ulbarr: Operations Mgr.

Signature: [Handwritten Signature]

Date: 12-01-21

Inside the small heavy equipment staging area NW of salt shed 60-0178 there's some rags, grease gun, & two 1 gallon containers of ant-freeze that need to be picked up & put inside a storage shed & entered into the MSGP tracking database as CAR# 2050.
There's windblown trash along the concrete jersey barriers on the N. & S. sides of TA-60 building 250 that is a housekeeping issue & entered into the MSGP tracking database as CAR# 2051.

| | | | | |
|-----|--|--------------------------|--------------------------|-------------------------------------|
| | describe. | | | |
| 290 | Substantially Identical Outfall [030] Free of Evidence of Erosion? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 300 | Substantially Identical Outfall [030] Flow Dissipation Devices Operating Effectively? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 310 | Substantially Identical Outfall [030] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 320 | Substantially Identical Outfall [030] Free of any unauthorized non-stormwater discharges? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 330 | Substantially Identical Outfall [033] Free of Evidence of Erosion? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 340 | Substantially Identical Outfall [033] Flow Dissipation Devices Operating Effectively? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 350 | Substantially Identical Outfall [033] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 360 | Substantially Identical Outfall [033] Free of any unauthorized non-stormwater discharges? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 370 | Substantially Identical Outfall [034] Free of Evidence of Erosion? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 380 | Substantially Identical Outfall [034] Flow Dissipation Devices Operating Effectively? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 390 | Substantially Identical Outfall [034] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 400 | Substantially Identical Outfall [034] Free of any unauthorized non-stormwater discharges? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 410 | Substantially Identical Outfall [035] Free of Evidence of Erosion? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 420 | Substantially Identical Outfall [035] Flow Dissipation Devices Operating Effectively? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 430 | Substantially Identical Outfall [035] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 440 | Substantially Identical Outfall [035] Free of any unauthorized non-stormwater discharges? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Control Measures (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant task comments).

| | | | | |
|-----|--|--------------------------|--------------------------|-------------------------------------|
| 460 | Asphalt Berm [6000303040052] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 470 | Asphalt Berm [6000303040062] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 480 | Rock Channel/Swale [6000304030016] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 490 | Rock Channel/Swale [6000304030039] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 500 | Rock Channel/Swale [6000304030040] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 510 | Rock Channel/Swale [6000304030060] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 520 | Rock Channel/Swale [6000304030095] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 530 | Rock Channel/Swale [6000304030096] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 540 | Rip Rap [6000304060011] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 550 | Rip Rap [6000304060014] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 560 | Rip Rap [6000304060022] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 570 | Rip Rap [6000304060025] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 580 | Rip Rap [6000304060026] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 590 | Rip Rap [6000304060027] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 600 | Rip Rap [6000304060029] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 610 | Rip Rap [6000304060032] Control Measure is operating effectively? If "No" describe condition | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

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| | & need for Maintenance, Repair, or Replacement. | | | |
| 620 | Rip Rap [6000304060033] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 630 | Rip Rap [6000304060066] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 640 | Earthen Berm [6000303010034] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 650 | Earthen Berm [6000303010036] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 660 | Earthen Berm [6000303010037] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 670 | Earthen Berm [6000303010038] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 680 | Earthen Berm [6000303010043] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 690 | Earthen Berm [6000303010075] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 700 | Straw Wattle [6000303060078] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 710 | Sediment Basin [6000305020018] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 720 | Sediment Basin [6000305020041] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 730 | Rock Check Dam [6000306010001] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 740 | Rock Check Dam [6000306010002] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 750 | Rock Check Dam [6000306010003] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 760 | Rock Check Dam [6000306010004] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 770 | Trench Drain [6000309040057] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 780 | Jersey Barriers [6000303170015] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 790 | EnviroSoxx w/ MetalLoxx [6000303200086] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 800 | EnviroSoxx w/ MetalLoxx [6000303200087] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 810 | EnviroSoxx w/ MetalLoxx [6000303200088] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 820 | EnviroSoxx w/ MetalLoxx [6000303200089] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 830 | EnviroSoxx w/ MetalLoxx [6000303200090] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 840 | EnviroSoxx w/ MetalLoxx [6000303200091] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 850 | EnviroSoxx w/ MetalLoxx [6000303200092] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 860 | EnviroSoxx w/ MetalLoxx [6000303200093] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 870 | EnviroSoxx w/ MetalLoxx [6000303200094] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 880 | Permanent Vegetation Vegetative Buffer Strip [6000302030042] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 890 | TRM-Lined Swale [6000304080061] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Area/Activity exposed to stormwater (identify needed maintenance or a description of corrective actions in relevant task comment).

| | | | | |
|-----|--|--------------------------|--------------------------|-------------------------------------|
| 910 | Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 920 | Transfer areas for substances in bulk: controls adequate (appropriate, effective, and | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

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|------------------------------------|---|-------------------------------------|-------------------------------------|-------------------------------------|
| | operating)? If "No" describe. | | | |
| 930 | Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 940 | Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 950 | Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 960 | Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 970 | Fueling areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 980 | Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 990 | Machinery: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1000 | Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1010 | Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 1020 | Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 1030 | Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1040 | Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 1050 | Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If "No" describe. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 1060 | Leaks and spills: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 1070 | Sector P [60003-] Vehicle storage/maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Non-Compliance | | | | |
| 1090 | Free of incidents of observed non-compliance not already identified above? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Additional Control Measures | | | | |
| 1110 | Are permit requirements satisfied with existing control measure(s)? If "No" describe additional control measures needed. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Labor

| Labor | Assigned | Work Date | Reg Hrs | OT Hrs | Other Hrs |
|------------------|---------------|-----------|---------|--------|-----------|
| Leonard Sandoval | 12/1/2021 / 1 | | | | |

Labor Report

Completed: _____

Report: Potassium acetate leaking from the valves at the bottom of both liquid storage tanks on the North side of 60-0178 & entered into the MSGP Tracking database as CAR# 2056.

Leonard E. Sandoval 12/20/2021 11:20 a.m.
 Signature / Name Date Signature / Name Date

I confirm the information as recorded is true, accurate and complete.

CERTIFICATION STATEMENT

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations".

Print name and title: Philip Oldham: UI OPS - MGR

Signature:  Date: 12/21/21

Holly Wheeler of EPC-CP & Bernice Archuleta were present during the inspection of LOG-HERG

North of 60-0718 there are several small oil stains on asphalt under the salt spreader trucks that need to be sprayed w/ micro-blaze & entered into the MSGP tracking database as CAR# 2057.

North of 60-0250 along the concrete jersey barriers there is several pieces of trash & next to a picnic table numerous cigarette buttes considered floatable solids that need to be picked up & entered into the MSGP tracking database as CAR# 2058.

At the TA-61 asphalt millings staging area there were two millings piles w/ straw wattles just placed around them w/ part being anchored & entered into the MSGP tracking database as CAR# 2059.

Maintenance Details

Requested: 6/4/2021 12:38:53 PM

Target: 6/30/2021

MSGP Program

Procedure: MSGP Routine Facility Inspection (EPC-CP-QP-2108 R0 Form 1)

Priority/Type: Normal / Inspection

RG200.5

Department: Utilities and Infrastructure

TA-60 Asphalt Batch Plant

Last PM: 4/5/2021

Project: Routine Facility Inspections June 2021 (P-MSGP-RI-5499)

Contact:
Phone:

Reason: 2021 June Inspections

*6/7/2021 Temp. 61°F / High of 83°F
Sunny w/ scattered clouds + smoke haze from forest fire near Cuba, N.M.
Wind - Less than 5 mph
8:00 a.m.*

Tasks

| # | Description | Meas. | No | N/A | Yes |
|---|--|-------|--------------------------|-------------------------------------|-------------------------------------|
| Weather Information | | | | | |
| 20 | Describe the weather at time of inspection and document the temperature (F°). | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Within the Facility Boundary | | | | | |
| 40 | Is the facility free of previously unidentified discharges from and/or pollutants that have occurred since the last inspection If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 50 | If "No" has a CAR been previously initiated for this new discharge? | | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 60 | Is the facility free of discharge of pollutants at the time of inspection? If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 70 | Is the facility free of evidence of, or the potential for, pollutants entering the drainage system. If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Outfall Inspection (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant task comment) | | | | | |
| 90 | Monitored Outfall [043] Free of Evidence of Erosion? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 100 | Monitored Outfall [043] Flow Dissipation Devices Operating Effectively? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 110 | Monitored Outfall [043] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 120 | Monitored Outfall [043] Free of any unauthorized non-stormwater discharges? If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Control Measures (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant task comments). | | | | | |
| 140 | Rip Rap [6000104060005] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 150 | Rip Rap [6000104060012] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 160 | Detention Pond [6000111020001] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 170 | Earthen Berm [6000103010009] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 180 | Base Course Berm [6000103020004] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 190 | Base Course Berm [6000103020006] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 200 | Coir Log [6000103140011] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Area/Activity exposed to stormwater (identify needed maintenance or a description of corrective actions in relevant task comment). | | | | | |
| 220 | Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 230 | Transfer areas for substances in bulk: controls adequate (appropriate, effective, and operating)? If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 240 | Product/chemical storage areas (raw material): controls adequate (appropriate, effective, | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

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|------------------------------------|---|--------------------------|-------------------------------------|-------------------------------------|
| | and operating)? If "No" describe. | | | |
| 250 | Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 260 | Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 270 | Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 280 | Fueling areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 290 | Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 300 | Machinery: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 310 | Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 320 | Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 330 | Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 340 | Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 350 | Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 360 | Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 370 | Leaks and spills: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Non-Compliance | | | | |
| 390 | Free of incidents of observed non-compliance not already identified above? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Additional Control Measures | | | | |
| 410 | Are permit requirements satisfied with existing control measure(s)? If "No" describe additional control measures needed. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Labor

| Labor | Assigned | Work Date | Reg Hrs | OT Hrs | Other Hrs |
|------------------|--------------|-----------|---------|--------|-----------|
| Leonard Sandoval | 6/4/2021 / 1 | | | | |

Labor Report

Completed: _____

Report:

Leonard F. Sandoval
 Signature / Name

6/7/2021 8:25a.m.
 Date

Signature / Name

Date

I confirm the information as recorded is true, accurate and complete.

CERTIFICATION STATEMENT

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations".

(Signatory must meet definition in Section B.11.A, eg. FOD, Ops Mgr, DESH Group Leader, EPC Group Leader)

Print name and title: Robert M-Ortiz UI-OPS Manager

Signature:  088524 Date: 7/6/2021

Maintenance Details

Requested: 7/1/2021 5:37:00 PM **Target:** 7/31/2021
Procedure: MSGP Routine Facility Inspection (EPC-CP-QP-2108 R0 Form 1) **Priority/Type:** Normal / Inspection
Last PM: 6/16/2021 **Department:** Utilities and Infrastructure
Project: Routine Facility Inspections July 2021 (P-MSGP-RI-5500) **Contact:**
Reason: 2021 July Inspections **Phone:**

MSGP Program
 RG200.5
 TA-60 Asphalt Batch Plant

7/12/2021 Temp. 58°F w/ high of 81°F
Fair to Partly Cloudy
w/ Smokey Haze
Wind - Less than 5mph
8:03 a.m.

Tasks

| # | Description | Meas. | No | N/A | Yes |
|---|--|-------|--------------------------|--------------------------|-------------------------------------|
| Weather Information | | | | | |
| 20 | Describe the weather at time of inspection and document the temperature (F°). | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Within the Facility Boundary | | | | | |
| 40 | Is the facility free of previously unidentified discharges from and/or pollutants that have occurred since the last inspection? If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 50 | If "No" has a CAR been previously initiated for this new discharge? | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 60 | Is the facility free of discharge of pollutants at the time of inspection? If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 70 | Is the facility free of evidence of, or the potential for, pollutants entering the drainage system. If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Outfall Inspection (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant task comment) | | | | | |
| 90 | Monitored Outfall [043] Free of Evidence of Erosion? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 100 | Monitored Outfall [043] Flow Dissipation Devices Operating Effectively? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 110 | Monitored Outfall [043] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 120 | Monitored Outfall [043] Free of any unauthorized non-stormwater discharges? If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Control Measures (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant task comments). | | | | | |
| 140 | Rip Rap [6000104060005] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 150 | Rip Rap [6000104060012] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 160 | Detention Pond [6000111020001] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 170 | Earthen Berm [6000103010009] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 180 | Base Course Berm [6000103020004] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 190 | Base Course Berm [6000103020006] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 200 | Coir Log [6000103140011] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Area/Activity exposed to stormwater (identify needed maintenance or a description of corrective actions in relevant task comment). | | | | | |
| 220 | Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 230 | Transfer areas for substances in bulk: controls adequate (appropriate, effective, and operating)? If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 240 | Product/chemical storage areas (raw material): controls adequate (appropriate, effective, | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

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|------------------------------------|---|--------------------------|-------------------------------------|-------------------------------------|
| | and operating)? If "No" describe. | | | |
| 250 | Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 260 | Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 270 | Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 280 | Fueling areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 290 | Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 300 | Machinery: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 310 | Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 320 | Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 330 | Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 340 | Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 350 | Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 360 | Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 370 | Leaks and spills: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Non-Compliance | | | | |
| 390 | Free of incidents of observed non-compliance not already identified above? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Additional Control Measures | | | | |
| 410 | Are permit requirements satisfied with existing control measure(s)? If "No" describe additional control measures needed. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Labor

| Labor | Assigned | Work Date | Reg Hrs | OT Hrs | Other Hrs |
|------------------|--------------|-----------|---------|--------|-----------|
| Leonard Sandoval | 7/1/2021 / 1 | | | | |

Labor Report

Completed: _____

Report:


 Signature / Name

7/12/2021 8:26 am.
 Date

Signature / Name

Date

I confirm the information as recorded is true, accurate and complete.

CERTIFICATION STATEMENT

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations".

(Signatory must meet definition in Section B.11.A, eg. FOD, Ops Mgr, DESH Group Leader, EPC Group Leader)

Print name and title: Phillip Ulisbarri WI-OPS-MGR GL

Signature:  Date: 7/28/21

Maintenance Details

Requested: 8/2/2021 9:41:00 AM **Target:** 8/31/2021 MSGP Program
Procedure: MSGP Routine Facility **Priority/Type:** Normal / Inspection RG200.5
 Inspection (EPC-CP-QP-2108 R0 Form 1) **Department:** Utilities and Infrastructure TA-60 Asphalt Batch Plant
Last PM: 6/7/2021 **Project:** Routine Facility Inspections August 2021 (P-MSGP-RI-5510) **Contact:**
Reason: 2021 August Inspections **Phone:**

*8/2/2021 Temp. 57°F / High of 71°F
Cloudy w/ 76% Chance of Rain
Wind - Less than 10 mph
8:40 a.m.*

Tasks

| # | Description | Meas. | No | N/A | Yes |
|---|--|-------|--------------------------|-------------------------------------|-------------------------------------|
| Weather Information | | | | | |
| 20 | Describe the weather at time of inspection and document the temperature (F°). | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Within the Facility Boundary | | | | | |
| 40 | Is the facility free of previously unidentified discharges from and/or pollutants that have occurred since the last inspection? If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 50 | If "No" has a CAR been previously initiated for this new discharge? | | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 60 | Is the facility free of discharge of pollutants at the time of inspection? If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 70 | Is the facility free of evidence of, or the potential for, pollutants entering the drainage system. If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Outfall Inspection (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant task comment) | | | | | |
| 90 | Monitored Outfall [043] Free of Evidence of Erosion? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 100 | Monitored Outfall [043] Flow Dissipation Devices Operating Effectively? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 110 | Monitored Outfall [043] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 120 | Monitored Outfall [043] Free of any unauthorized non-stormwater discharges? If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Control Measures (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant task comments). | | | | | |
| 140 | Rip Rap [6000104060005] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 150 | Rip Rap [6000104060012] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 160 | Detention Pond [600011020001] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 170 | Earthen Berm [6000103010009] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 180 | Base Course Berm [6000103020004] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 190 | Base Course Berm [6000103020006] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 200 | Coir Log [6000103140011] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Area/Activity exposed to stormwater (identify needed maintenance or a description of corrective actions in relevant task comment). | | | | | |
| 220 | Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 230 | Transfer areas for substances in bulk: controls adequate (appropriate, effective, and operating)? If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 240 | Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

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|------------------------------------|---|--------------------------|-------------------------------------|-------------------------------------|
| | operating)? If "No" describe. | | | |
| 250 | Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 260 | Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 270 | Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 280 | Fueling areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 290 | Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 300 | Machinery: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 310 | Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 320 | Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 330 | Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 340 | Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 350 | Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 360 | Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 370 | Leaks and spills: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Non-Compliance | | | | |
| 390 | Free of incidents of observed non-compliance not already identified above? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Additional Control Measures | | | | |
| 410 | Are permit requirements satisfied with existing control measure(s)? If "No" describe additional control measures needed. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Labor

| Labor | Assigned | Work Date | Reg Hrs | OT Hrs | Other Hrs |
|---------------|--------------|-----------|---------|--------|-----------|
| Knight, Jacob | 8/2/2021 / 1 | | | | |

Labor Report

Completed: _____

Report:

Leand F. Sandval
 Signature / Name

8/2/2021 9:05 a.m.
 Date

Signature / Name

Date

I confirm the information as recorded is true, accurate and complete.

CERTIFICATION STATEMENT

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations".

(Signatory must meet definition in Section B.11.A, eg. FOD, Ops Mgr, DESH Group Leader, EPC Group Leader)

Print name and title: Philip W Phillip Ulibarr: UI Operations Mgr.

Signature: Philip W Ulibarr Date: 8/27/21

Maintenance Details

Requested: 8/30/2021 5:22:13 PM **Target:** 9/30/2021
Procedure: MSGP Routine Facility Inspection (EPC-CP-QP-2108 R0 Form 1) **Priority/Type:** Normal / Inspection
Last PM: 8/2/2021 **Department:** Utilities and Infrastructure
Project: Routine Facility Inspections September 2021 (P-MSGP-RI-5516) **Contact:**
Reason: MSGP Routine Facility Inspection **Phone:**

MSGP Program
 RG200.5
 TA-60 Asphalt Batch Plant

*9/1/2021 Temp. 59°F / High of 69°F
 Fair to Partly Cloudy
 48% Chance of rain
 Wind - Less than 5mph
 7:13 a.m.*

Tasks

| # | Description | Meas. | No | N/A | Yes |
|---|--|-------|--------------------------|-------------------------------------|-------------------------------------|
| Weather Information | | | | | |
| 20 | Describe the weather at time of inspection and document the temperature (F°). | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Within the Facility Boundary | | | | | |
| 40 | Is the facility free of previously unidentified discharges from and/or pollutants that have occurred since the last inspection? If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 50 | If "No" has a CAR been previously initiated for this new discharge? | | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 60 | Is the facility free of discharge of pollutants at the time of inspection? If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 70 | Is the facility free of evidence of, or the potential for, pollutants entering the drainage system. If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Outfall Inspection (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant task comment) | | | | | |
| 90 | Monitored Outfall [043] Free of Evidence of Erosion? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 100 | Monitored Outfall [043] Flow Dissipation Devices Operating Effectively? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 110 | Monitored Outfall [043] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 120 | Monitored Outfall [043] Free of any unauthorized non-stormwater discharges? If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Control Measures (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant task comments). | | | | | |
| 140 | Rip Rap [6000104060005] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 150 | Rip Rap [6000104060012] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 160 | Detention Pond [6000111020001] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 170 | Earthen Berm [6000103010009] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 180 | Base Course Berm [6000103020004] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 190 | Base Course Berm [6000103020006] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 200 | Coir Log [6000103140011] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Area/Activity exposed to stormwater (identify needed maintenance or a description of corrective actions in relevant task comment). | | | | | |
| 220 | Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 230 | Transfer areas for substances in bulk: controls adequate (appropriate, effective, and operating)? If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

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|------------------------------------|---|--------------------------|-------------------------------------|-------------------------------------|
| 240 | Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 250 | Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 260 | Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 270 | Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 280 | Fueling areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 290 | Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 300 | Machinery: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 310 | Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 320 | Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 330 | Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 340 | Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 350 | Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 360 | Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 370 | Leaks and spills: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Non-Compliance | | | | |
| 390 | Free of incidents of observed non-compliance not already identified above? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Additional Control Measures | | | | |
| 410 | Are permit requirements satisfied with existing control measure(s)? If "No" describe additional control measures needed. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Labor

| Labor | Assigned | Work Date | Reg Hrs | OT Hrs | Other Hrs |
|------------------|--------------|-----------|---------|--------|-----------|
| Leonard Sandoval | 9/1/2021 / 1 | | | | |

Labor Report

Completed: _____

Report:

Leonard F. Sandoval 9/1/2021 7:35 a.m.
 Signature / Name Date Signature / Name Date

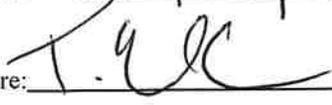
I confirm the information as recorded is true, accurate and complete.

CERTIFICATION STATEMENT

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations".

(Signatory must meet definition in Section B.11.A, eg. FOD, Ops Mgr, DESH Group Leader, EPC Group Leader)

Print name and title: Phillip Weber, UI-OPS - MGR

Signature:  Date: 9/30/21

Pathology was being performed to locate the underground natural gas lines & other utilities in advance of the Batch Plant being dis-mantled.

| | | | | |
|-----|---|--------------------------|-------------------------------------|-------------------------------------|
| 230 | Transfer areas for substances in bulk: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 240 | Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 250 | Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 260 | Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 270 | Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 280 | Fueling areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 290 | Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 300 | Machinery: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 310 | Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 320 | Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 330 | Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 340 | Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 350 | Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 360 | Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 370 | Leaks and spills: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Non-Compliance

| | | | | |
|-----|--|--------------------------|--------------------------|-------------------------------------|
| 390 | Free of incidents of observed non-compliance not already identified above? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
|-----|--|--------------------------|--------------------------|-------------------------------------|

Additional Control Measures

| | | | | |
|-----|--|--------------------------|--------------------------|-------------------------------------|
| 410 | Are permit requirements satisfied with existing control measure(s)? If "No" describe additional control measures needed. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
|-----|--|--------------------------|--------------------------|-------------------------------------|

Labor

| Labor | Assigned | Work Date | Reg Hrs | OT Hrs | Other Hrs |
|------------------|---------------|-----------|---------|--------|-----------|
| Leonard Sandoval | 10/4/2021 / 1 | | | | |

Labor Report

Completed: _____

Report: The TA-60 Asphalt Batch Plant was dismantled in September & staged East of the Clean Fill yard.

Leonard F. Sandoval 10/3/2021 8:48 a.m.
 Signature / Name Date Signature / Name Date

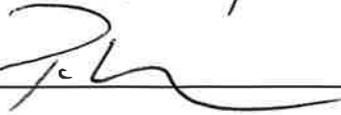
I confirm the information as recorded is true, accurate and complete.

CERTIFICATION STATEMENT

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations".

(Signatory must meet definition in Section B.11.A, eg. FOD, Ops Mgr, DESH Group Leader, EPC Group Leader)

Print name and title: Philip Ulbarri UI-OPS-MGR

Signature:  Date: 10/28/21

Maintenance Details

Requested: 11/1/2021 11:37:00 AM **Target:** 11/28/2021 MSGP Program
Procedure: MSGP Routine Facility Inspection (EPC-CP-QP-2108 R0 Form 1) **Priority/Type:** Normal / Inspection RG200.5
Last PM: 9/1/2021 **Department:** Utilities and Infrastructure TA-60 Asphalt Batch Plant
Project: Routine Facility Inspections November 2021 (P-MSGP-RI-5530) **Contact:** **Phone:**
Reason: 2021 November Inspections

*11/9/2021 Temp. 45°F High of 61°F
 Fair to Partly Cloudy
 Wind - Less than 5mph
 9:17 a.m.*

Tasks

| # | Description | Meas. | No | N/A | Yes |
|---|--|-------|--------------------------|-------------------------------------|-------------------------------------|
| Weather Information | | | | | |
| 20 | Describe the weather at time of inspection and document the temperature (F°). | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Within the Facility Boundary | | | | | |
| 40 | Is the facility free of previously unidentified discharges from and/or pollutants that have occurred since the last inspection If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 50 | If "No" has a CAR been previously initiated for this new discharge? | | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 60 | Is the facility free of discharge of pollutants at the time of inspection? If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 70 | Is the facility free of evidence of, or the potential for, pollutants entering the drainage system. If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Outfall Inspection (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant task comment) | | | | | |
| 90 | Monitored Outfall [043] Free of Evidence of Erosion? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 100 | Monitored Outfall [043] Flow Dissipation Devices Operating Effectively? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 110 | Monitored Outfall [043] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 120 | Monitored Outfall [043] Free of any unauthorized non-stormwater discharges? If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Control Measures (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant task comments). | | | | | |
| 140 | Rip Rap [6000104060005] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 150 | Rip Rap [6000104060012] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 160 | Detention Pond [6000111020001] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 170 | Earthen Berm [6000103010009] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 180 | Base Course Berm [6000103020004] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 190 | Base Course Berm [6000103020006] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 200 | Coir Log [6000103140011] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Area/Activity exposed to stormwater (identify needed maintenance or a description of corrective actions in relevant task comment). | | | | | |
| 220 | Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 230 | Transfer areas for substances in bulk: controls adequate (appropriate, effective, and | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

| | | | | |
|------------------------------------|---|--------------------------|-------------------------------------|-------------------------------------|
| | operating)? If "No" describe. | | | |
| 240 | Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 250 | Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 260 | Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 270 | Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 280 | Fueling areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 290 | Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 300 | Machinery: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 310 | Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 320 | Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 330 | Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 340 | Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 350 | Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 360 | Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 370 | Leaks and spills: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Non-Compliance | | | | |
| 390 | Free of incidents of observed non-compliance not already identified above? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Additional Control Measures | | | | |
| 410 | Are permit requirements satisfied with existing control measure(s)? If "No" describe additional control measures needed. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Labor

| Labor | Assigned | Work Date | Reg Hrs | OT Hrs | Other Hrs |
|------------------|----------|---------------|---------|--------|-----------|
| Leonard Sandoval | | 11/1/2021 / 1 | | | |

Labor Report

Completed: _____

Report:

Leonard F. Sandoval
 Signature / Name

11/9/2021 2:38 a.m.
 Date

Signature / Name

Date

I confirm the information as recorded is true, accurate and complete.

CERTIFICATION STATEMENT

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering information, the

information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations".

(Signatory must meet definition in Section B.11.A, eg. FOD, Ops Mgr, DESH Group Leader, EPC Group Leader)

Print name and title: Philip Ulibari Operation Mgr.

Signature:  Date: 12-01-21

| | | | | |
|------------------------------------|---|--------------------------|-------------------------------------|-------------------------------------|
| 250 | Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 260 | Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 270 | Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 280 | Fueling areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 290 | Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 300 | Machinery: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 310 | Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 320 | Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 330 | Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 340 | Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 350 | Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 360 | Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 370 | Leaks and spills: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Non-Compliance | | | | |
| 390 | Free of incidents of observed non-compliance not already identified above? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Additional Control Measures | | | | |
| 410 | Are permit requirements satisfied with existing control measure(s)? If "No" describe additional control measures needed. | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Labor

| Labor | Assigned | Work Date | Reg Hrs | OT Hrs | Other Hrs |
|------------------|---------------|-----------|---------|--------|-----------|
| Leonard Sandoval | 12/1/2021 / 1 | | | | |

Labor Report

Completed: _____

Report:

Signature / Name: Leonard F. Sandoval Date: 12/20/2021 9:20 a.m. Signature / Name: _____ Date: _____

I confirm the information as recorded is true, accurate and complete.

CERTIFICATION STATEMENT

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations".

(Signatory must meet definition in Section B.11.A, eg. FOD, Ops Mgr, DESH Group Leader, EPC Group Leader)

Print name and title: Philip Ubarria VE-OPS-MGR

Signature:

F. Wheeler

Date:

12/21/21

Holly Wheeler of EPC-CP was present during the inspection.

ATTACHMENT 8: QUARTERLY VISUAL ASSESSMENTS

NMR050013 MSGP 2021
TA-60 Roads and Grounds

Quarterly Visual Assessment Forms,
First Quarter, July through September 2022

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information contained therein. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information contained is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Terrill W. Lemke, EPC-CP Storm Water Permitting/Compliance Team
Leader

Los Alamos National Laboratory

TERRILL LEMKE Digitally signed by TERRILL
LEMKE (Affiliate)
(Affiliate) Date: 2022.11.18 11:20:07
-07'00'

Manager Signature

| Facility Name | Sampling Station | Work Order # |
|-------------------------|------------------|--------------|
| TA-60 Roads and Grounds | MSGP03301 | MSGP-66057 |
| TA-60 Roads and Grounds | MSGP03401 | MSGP-66058 |
| TA-60 Roads and Grounds | MSGP03501 | MSGP-66059 |
| TA-60 Roads and Grounds | MSGP03001 | MSGP-66060 |
| TA-60 Roads and Grounds | MSGP03201 | MSGP-66065 |
| TA-60 Roads and Grounds | MSGP03101 | MSGP-66066 |
| TA-60 Roads and Grounds | MSGP04201 | MSGP-66067 |
| TA-60 Roads and Grounds | MSGP03701 | MSGP-66097 |

Maintenance Details

| | | |
|---|---|---|
| Requested: 7/5/2022 4:42:00 PM | Target: 9/30/2022 |  MSGP Program |
| Procedure: MSGP Quarterly Visual Assessment (EPC-CP-QP-2105 R1 Form 1) | Priority/Type: Normal / Inspection |  RG200.5 |
| Last PM: 7/5/2022 | Department: Utilities and Infrastructure |  TA-60 Roads and Grounds |
| Project: Visual Assessments 7/1/22 (P-MSGP-5591) | |  Monitored Outfall (032) |
| | |  Substantially Identical Discharge Point (033) |
| | |  MSGP03301 |
| Reason: MSGP Quarterly Visual Assessment | Contact: | |
| | Phone: | |

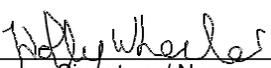
Tasks

| # | Description | Meas. | No | N/A | Yes |
|--|--|------------------|-------------------------------------|--------------------------|-------------------------------------|
| The result of this VA applies to associated SIOs as defined in the SWPPP, where applicable. | | | | | |
| Sample information | | | | | |
| 30 | Document the monitoring period. | July-Sept | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 40 | Document the Date/Time Discharge began in the "Reading" field of this line (using mm/dd/yy hh:mm format). | 07/01/22 @ 22:15 | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 50 | Document the Date/time sample collected in the "Reading" field of this line (using mm/dd/yy hh:mm format). | 07/01/22 @ 22:15 | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 60 | Document the Date/time sample visually assessed in the "Reading" field of this line (using mm/dd/yy hh:mm format). | 07/05/22 @ 11:43 | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 70 | Document the nature of discharge (e.g., rain, snowmelt). Document the TOTAL amount (in) in the "Reading" field of this line. | 0.19" of rain | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 80 | Sample collected in first 30 minutes of discharge? If "Failed" or unknown, provide a reason. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Parameters | | | | | |
| 110 | Is sample colorless? If "Failed", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 120 | Is sample odorless? If "Failed", provide description (e.g. musty, sewage, sulfur, sour, solvent, petroleum/gas) | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 130 | Is sample clear? If "Failed", provide description (e.g., slightly cloudy, cloudy, opaque). | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 140 | Is sample free of floating solids? If "Failed", describe if raw or waste material(s) in the comments of this line. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 150 | Is sample free of settled solids? If "Failed", provide description (e.g., fine, course). | course | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 160 | Is sample free of suspended solids? If "Failed", provide description (e.g., fine, course). | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 170 | Is sample foamless after gently shaking? If "Failed" describe foam color and location (e.g., 'on the surface' or 'in the sample'). | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 180 | Is sample devoid of an oil sheen? If "Failed", describe color and thickness (e.g. flecks, globs). | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 190 | Is sample free of other obvious indicators of pollution? If "Failed", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Labor Report

Completed: 7/5/2022 11:43:00 AM

Report: 7/11/2022 - 118432: Holly Wheeler

| | | | |
|---|-----------|------------------|------|
|  | 7/11/2022 | | |
| Signature / Name | Date | Signature / Name | Date |

I confirm the information as recorded is true, accurate and complete.

CERTIFICATION STATEMENT

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(Signatory must meet definition in Section B.11.A, eg. FOD, Ops Mgr, EPC Group or Team Leader)

Print name and title: Terrill W. Lemke, EPC-CP Storm Water Permitting/Compliance Team Leader

Signature: (See signature on file) Date: _____

Maintenance Details

| | | |
|---|---|---|
| Requested: 7/5/2022 4:42:00 PM | Target: 9/30/2022 |  MSGP Program |
| Procedure: MSGP Quarterly Visual Assessment (EPC-CP-QP-2105 R1 Form 1) | Priority/Type: Normal / Inspection |  RG200.5 |
| Last PM: 7/5/2022 | Department: Utilities and Infrastructure |  TA-60 Roads and Grounds |
| Project: Visual Assessments 7/1/22 (P-MSGP-5591) | |  Monitored Outfall (032) |
| | |  Substantially Identical Discharge Point (034) |
| | |  MSGP03401 |
| Reason: MSGP Quarterly Visual Assessment | Contact: | |
| | Phone: | |

Tasks

| # | Description | Meas. | No | N/A | Yes |
|--|--|-------------------|-------------------------------------|--------------------------|-------------------------------------|
| The result of this VA applies to associated SIOs as defined in the SWPPP, where applicable. | | | | | |
| Sample information | | | | | |
| 30 | Document the monitoring period. | July-Sept | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 40 | Document the Date/Time Discharge began in the "Reading" field of this line (using mm/dd/yy hh:mm format). | 07/01/22 @ 22:15 | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 50 | Document the Date/time sample collected in the "Reading" field of this line (using mm/dd/yy hh:mm format). | 07/01/22 @ 22:15 | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 60 | Document the Date/time sample visually assessed in the "Reading" field of this line (using mm/dd/yy hh:mm format). | 07/05/22 at 11:50 | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 70 | Document the nature of discharge (e.g., rain, snowmelt). Document the TOTAL amount (in) in the "Reading" field of this line. | 0:19" of rain | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 80 | Sample collected in first 30 minutes of discharge? If "Failed" or unknown, provide a reason. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Parameters | | | | | |
| 110 | Is sample colorless? If "Failed", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 120 | Is sample odorless? If "Failed", provide description (e.g. musty, sewage, sulfur, sour, solvent, petroleum/gas) | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 130 | Is sample clear? If "Failed", provide description (e.g., slightly cloudy, cloudy, opaque). | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 140 | Is sample free of floating solids? If "Failed", describe if raw or waste material(s) in the comments of this line. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 150 | Is sample free of settled solids? If "Failed", provide description (e.g., fine, course). | course | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 160 | Is sample free of suspended solids? If "Failed", provide description (e.g., fine, course). | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 170 | Is sample foamless after gently shaking? If "Failed" describe foam color and location (e.g., 'on the surface' or 'in the sample'). | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 180 | Is sample devoid of an oil sheen? If "Failed", describe color and thickness (e.g. flecks, globs). | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 190 | Is sample free of other obvious indicators of pollution? If "Failed", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Labor Report

Completed: 7/5/2022 11:50:00 AM

Report: 7/11/2022 - 118432: Holly Wheeler

| | | | |
|---|-----------|------------------|------|
|  | 7/11/2022 | | |
| Signature / Name | Date | Signature / Name | Date |

I confirm the information as recorded is true, accurate and complete.

CERTIFICATION STATEMENT

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information contained therein. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information contained is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations".

(Signatory must meet definition in Section B.11.A, eg. FOD, Ops Mgr, EPC Group or Team Leader)

Print name and title: Terrill W. Lemke, EPC-CP Storm Water Permitting/Compliance Team Leader

Signature: (See signature on file) Date: _____

Maintenance Details

Requested: 7/5/2022 4:42:00 PM

Target: 9/30/2022

 MSGP Program

Procedure: MSGP Quarterly Visual Assessment (EPC-CP-QP-2105 R1 Form 1)

Priority/Type: Normal / Inspection

 RG200.5

Last PM: 7/5/2022

Department: Utilities and Infrastructure

 TA-60 Roads and Grounds

Project: Visual Assessments 7/1/22 (P-MSGP-5591)

 Monitored Outfall (032)

 Substantially Identical Discharge Point (035)

 **MSGP03501**

Reason: MSGP Quarterly Visual Assessment

Contact:

Phone:

Tasks

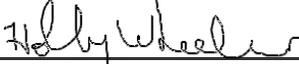
| # | Description | Meas. | No | N/A | Yes |
|--|--|-----------------------------------|-------------------------------------|--------------------------|-------------------------------------|
| The result of this VA applies to associated SIOs as defined in the SWPPP, where applicable. | | | | | |
| Sample information | | | | | |
| 30 | Document the monitoring period. | July-Sept | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 40 | Document the Date/Time Discharge began in the "Reading" field of this line (using mm/dd/yy hh:mm format). | 07/01/22 @ 22:15 | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 50 | Document the Date/time sample collected in the "Reading" field of this line (using mm/dd/yy hh:mm format). | 07/01/22 @ 22:15 | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 60 | Document the Date/time sample visually assessed in the "Reading" field of this line (using mm/dd/yy hh:mm format). | 07/05/22 @ 12:00 | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 70 | Document the nature of discharge (e.g., rain, snowmelt). Document the TOTAL amount (in) in the "Reading" field of this line. | 0.19" of rain | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 80 | Sample collected in first 30 minutes of discharge? If "Failed" or unknown, provide a reason. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Parameters | | | | | |
| 110 | Is sample colorless? If "Failed", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 120 | Is sample odorless? If "Failed", provide description (e.g. musty, sewage, sulfur, sour, solvent, petroleum/gas) | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 130 | Is sample clear? If "Failed", provide description (e.g., slightly cloudy, cloudy, opaque). | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 140 | Is sample free of floating solids? If "Failed", describe if raw or waste material(s) in the comments of this line. | Ants were floating on the sample. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 150 | Is sample free of settled solids? If "Failed", provide description (e.g., fine, course). | course | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 160 | Is sample free of suspended solids? If "Failed", provide description (e.g., fine, course). | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 170 | Is sample foamless after gently shaking? If "Failed" describe foam color and location (e.g., 'on the surface' or 'in the sample'). | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 180 | Is sample devoid of an oil sheen? If "Failed", describe color and thickness (e.g. flecks, globs). | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 190 | Is sample free of other obvious indicators of pollution? If "Failed", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Labor Report

Completed: 7/5/2022 12:00:00 PM

Report: 7/11/2022 - 118432: Holly Wheeler

7/11/2022



Signature / Name

Date

Signature / Name

Date

I confirm the information as recorded is true, accurate and complete.

CERTIFICATION STATEMENT

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information contained therein. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information contained is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations".

(Signatory must meet definition in Section B.11.A, eg. FOD, Ops Mgr, EPC Group or Team Leader)

Print name and title: Terrill W. Lemke, EPC-CP Storm Water Permitting/Compliance Team Leader

Signature: (See signature on file) Date: _____

Maintenance Details

| | | |
|---|---|---|
| Requested: 7/5/2022 4:42:00 PM | Target: 9/30/2022 |  MSGP Program |
| Procedure: MSGP Quarterly Visual Assessment (EPC-CP-QP-2105 R1 Form 1) | Priority/Type: Normal / Inspection |  RG200.5 |
| Last PM: 7/5/2022 | Department: Utilities and Infrastructure |  TA-60 Roads and Grounds |
| Project: Visual Assessments 7/1/22 (P-MSGP-5591) | |  Monitored Outfall (031) |
| | |  Substantially Identical Discharge Point (030) |
| | |  MSGP03001 |
| Reason: MSGP Quarterly Visual Assessment | Contact: | |
| | Phone: | |

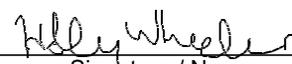
Tasks

| # | Description | Meas. | No | N/A | Yes |
|--|--|---------------------|-------------------------------------|--------------------------|-------------------------------------|
| The result of this VA applies to associated SIOs as defined in the SWPPP, where applicable. | | | | | |
| Sample information | | | | | |
| 30 | Document the monitoring period. | July-Sept | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 40 | Document the Date/Time Discharge began in the "Reading" field of this line (using mm/dd/yy hh:mm format). | 07/01/22 23:07 | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 50 | Document the Date/time sample collected in the "Reading" field of this line (using mm/dd/yy hh:mm format). | 07/01/22 23:07 | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 60 | Document the Date/time sample visually assessed in the "Reading" field of this line (using mm/dd/yy hh:mm format). | 07/05/22 @ 11:34 | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 70 | Document the nature of discharge (e.g., rain, snowmelt). Document the TOTAL amount (in) in the "Reading" field of this line. | 0.19" rain | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 80 | Sample collected in first 30 minutes of discharge? If "Failed" or unknown, provide a reason. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Parameters | | | | | |
| 110 | Is sample colorless? If "Failed", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 120 | Is sample odorless? If "Failed", provide description (e.g. musty, sewage, sulfur, sour, solvent, petroleum/gas) | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 130 | Is sample clear? If "Failed", provide description (e.g., slightly cloudy, cloudy, opaque). | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 140 | Is sample free of floating solids? If "Failed", describe if raw or waste material(s) in the comments of this line. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 150 | Is sample free of settled solids? If "Failed", provide description (e.g., fine, course). | fine | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 160 | Is sample free of suspended solids? If "Failed", provide description (e.g., fine, course). | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 170 | Is sample foamless after gently shaking? If "Failed" describe foam color and location (e.g., 'on the surface' or 'in the sample'). | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 180 | Is sample devoid of an oil sheen? If "Failed", describe color and thickness (e.g. flecks, globs). | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 190 | Is sample free of other obvious indicators of pollution? If "Failed", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Labor Report

Completed: 7/5/2022 11:34:00 AM

Report: 7/11/2022 - 118432: Holly Wheeler

| | | | |
|---|-----------|------------------|------|
|  | 7/11/2022 | | |
| Signature / Name | Date | Signature / Name | Date |

I confirm the information as recorded is true, accurate and complete.

CERTIFICATION STATEMENT

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information contained therein. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information contained is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations".

(Signatory must meet definition in Section B.11.A, eg. FOD, Ops Mgr, EPC Group or Team Leader)

Print name and title: Terrill W. Lemke, EPC-CP Storm Water Permitting/Compliance Team Leader

Signature: (See signature on file) Date: _____

Maintenance Details

Requested: 7/5/2022 5:41:00 PM
Procedure: MSGP Quarterly Visual Assessment (EPC-CP-QP-2105 R1 Form 1)
Last PM: 7/5/2022
Project: Visual Assessments 7/1/22 (P-MSGP-5591)
Reason: MSGP Quarterly Visual Assessment

Target: 9/30/2022
Priority/Type: Normal / Inspection
Department: Utilities and Infrastructure

 MSGP Program
 RG200.5
 TA-60 Roads and Grounds
 Monitored Outfall (032)
 **MSGP03201**

Contact:
Phone:

Tasks

| # | Description | Meas. | No | N/A | Yes |
|--|--|-------------------|-------------------------------------|--------------------------|-------------------------------------|
| The result of this VA applies to associated SIOs as defined in the SWPPP, where applicable. | | | | | |
| Sample information | | | | | |
| 30 | Document the monitoring period. | Jul-Sept | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 40 | Document the Date/Time Discharge began in the "Reading" field of this line (using mm/dd/yy hh:mm format). | 07/01/22 22:15 | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 50 | Document the Date/time sample collected in the "Reading" field of this line (using mm/dd/yy hh:mm format). | 07/01/22 22:15 | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 60 | Document the Date/time sample visually assessed in the "Reading" field of this line (using mm/dd/yy hh:mm format). | 07/05/22 13:30 | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 70 | Document the nature of discharge (e.g., rain, snowmelt). Document the TOTAL amount (in) in the "Reading" field of this line. | Rain 0.19" | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 80 | Sample collected in first 30 minutes of discharge? If "Failed" or unknown, provide a reason. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Parameters | | | | | |
| 110 | Is sample colorless? If "Failed", describe. Comments: Brown | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 120 | Is sample odorless? If "Failed", provide description (e.g. musty, sewage, sulfur, sour, solvent, petroleum/gas) | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 130 | Is sample clear? If "Failed", provide description (e.g., slightly cloudy, cloudy, opaque). Comments: cloudy | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 140 | Is sample free of floating solids? If "Failed", describe if raw or waste material(s) in the comments of this line. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 150 | Is sample free of settled solids? If "Failed", provide description (e.g., fine, coarse). | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 160 | Is sample free of suspended solids? If "Failed", provide description (e.g., fine, coarse). | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 170 | Is sample foamless after gently shaking? If "Failed" describe foam color and location (e.g., 'on the surface' or 'in the sample'). | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 180 | Is sample devoid of an oil sheen? If "Failed", describe color and thickness (e.g. flecks, globs). | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 190 | Is sample free of other obvious indicators of pollution? If "Failed", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Labor Report

Completed: 7/5/2022 1:30:00 PM

Report: Wayne Sanchez



7/19/2022

Signature / Name

Date

Signature / Name

Date

I confirm the information as recorded is true, accurate and complete.

CERTIFICATION STATEMENT

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information contained therein. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information contained is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations".

(Signatory must meet definition in Section B.11.A, eg. FOD, Ops Mgr, EPC Group or Team Leader)

Print name and title: Terrill W. Lemke, EPC-CP Storm Water Permitting/Compliance Team Leader

Signature: (See signature on file) Date: _____

Maintenance Details

Requested: 7/5/2022 5:41:00 PM
Procedure: MSGP Quarterly Visual Assessment (EPC-CP-QP-2105 R1 Form 1)
Last PM: 7/5/2022
Project: Visual Assessments 7/1/22 (P-MSGP-5591)
Reason: MSGP Quarterly Visual Assessment

Target: 9/30/2022
Priority/Type: Normal / Inspection
Department: Utilities and Infrastructure

 MSGP Program
 RG200.5
 TA-60 Roads and Grounds
 Monitored Outfall (031)
 **MSGP03101**

Contact:
Phone:

Tasks

| # | Description | Meas. | No | N/A | Yes |
|--|--|-------------------|-------------------------------------|--------------------------|-------------------------------------|
| The result of this VA applies to associated SIOs as defined in the SWPPP, where applicable. | | | | | |
| Sample information | | | | | |
| 30 | Document the monitoring period. | Jul-Sept | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 40 | Document the Date/Time Discharge began in the "Reading" field of this line (using mm/dd/yy hh:mm format). | 07/01/22 23:07 | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 50 | Document the Date/time sample collected in the "Reading" field of this line (using mm/dd/yy hh:mm format). | 07/01/22 23:07 | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 60 | Document the Date/time sample visually assessed in the "Reading" field of this line (using mm/dd/yy hh:mm format). | 07/05/22 13:45 | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 70 | Document the nature of discharge (e.g., rain, snowmelt). Document the TOTAL amount (in) in the "Reading" field of this line. | Rain 0.19" | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 80 | Sample collected in first 30 minutes of discharge? If "Failed" or unknown, provide a reason. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Parameters | | | | | |
| 110 | Is sample colorless? If "Failed", describe. Comments: Brown | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 120 | Is sample odorless? If "Failed", provide description (e.g. musty, sewage, sulfur, sour, solvent, petroleum/gas) | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 130 | Is sample clear? If "Failed", provide description (e.g., slightly cloudy, cloudy, opaque). Comments: slightly cloudy | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 140 | Is sample free of floating solids? If "Failed", describe if raw or waste material(s) in the comments of this line. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 150 | Is sample free of settled solids? If "Failed", provide description (e.g., fine, coarse). | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 160 | Is sample free of suspended solids? If "Failed", provide description (e.g., fine, coarse). | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 170 | Is sample foamless after gently shaking? If "Failed" describe foam color and location (e.g., 'on the surface' or 'in the sample'). | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 180 | Is sample devoid of an oil sheen? If "Failed", describe color and thickness (e.g. flecks, globs). | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 190 | Is sample free of other obvious indicators of pollution? If "Failed", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Labor Report

Completed: 7/5/2022 1:45:00 PM

Report: Wayne Sanchez



7/19/2022

Signature / Name

Date

Signature / Name

Date

I confirm the information as recorded is true, accurate and complete.

CERTIFICATION STATEMENT

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information contained therein. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information contained is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations".

(Signatory must meet definition in Section B.11.A, eg. FOD, Ops Mgr, EPC Group or Team Leader)

Print name and title: Terrill W. Lemke, EPC-CP Storm Water Permitting/Compliance Team Leader

Signature: (See signature on file) Date: _____

Maintenance Details

Requested: 7/5/2022 5:41:00 PM
Procedure: MSGP Quarterly Visual Assessment (EPC-CP-QP-2105 R1 Form 1)
Last PM: 7/5/2022
Project: Visual Assessments 7/1/22 (P-MSGP-5591)
Reason: MSGP Quarterly Visual Assessment

Target: 9/30/2022
Priority/Type: Normal / Inspection
Department: Utilities and Infrastructure

 MSGP Program
 RG200.5
 TA-60 Roads and Grounds
 Monitored Outfall (042)
 **MSGP04201**

Contact:
Phone:

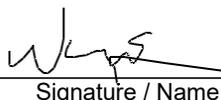
Tasks

| # | Description | Meas. | No | N/A | Yes |
|--|--|-------------------|-------------------------------------|--------------------------|-------------------------------------|
| The result of this VA applies to associated SIOs as defined in the SWPPP, where applicable. | | | | | |
| Sample information | | | | | |
| 30 | Document the monitoring period. | Jul-Sept | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 40 | Document the Date/Time Discharge began in the "Reading" field of this line (using mm/dd/yy hh:mm format). | 07/01/22 22:09 | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 50 | Document the Date/time sample collected in the "Reading" field of this line (using mm/dd/yy hh:mm format). | 07/01/22 22:09 | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 60 | Document the Date/time sample visually assessed in the "Reading" field of this line (using mm/dd/yy hh:mm format). | 07/05/22 13:15 | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 70 | Document the nature of discharge (e.g., rain, snowmelt). Document the TOTAL amount (in) in the "Reading" field of this line. | Rain 0.19" | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 80 | Sample collected in first 30 minutes of discharge? If "Failed" or unknown, provide a reason. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Parameters | | | | | |
| 110 | Is sample colorless? If "Failed", describe. Comments: Brown | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 120 | Is sample odorless? If "Failed", provide description (e.g. musty, sewage, sulfur, sour, solvent, petroleum/gas) | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 130 | Is sample clear? If "Failed", provide description (e.g., slightly cloudy, cloudy, opaque). Comments: cloudy | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 140 | Is sample free of floating solids? If "Failed", describe if raw or waste material(s) in the comments of this line. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 150 | Is sample free of settled solids? If "Failed", provide description (e.g., fine, coarse). | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 160 | Is sample free of suspended solids? If "Failed", provide description (e.g., fine, coarse). | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 170 | Is sample foamless after gently shaking? If "Failed" describe foam color and location (e.g., 'on the surface' or 'in the sample'). | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 180 | Is sample devoid of an oil sheen? If "Failed", describe color and thickness (e.g. flecks, globs). | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 190 | Is sample free of other obvious indicators of pollution? If "Failed", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Labor Report

Completed: 7/5/2022 1:15:00 PM

Report: Wayne Sanchez


 Signature / Name

7/19/2022
 Date

Signature / Name

Date

I confirm the information as recorded is true, accurate and complete.

CERTIFICATION STATEMENT

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information contained therein. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information contained is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations".

(Signatory must meet definition in Section B.11.A, eg. FOD, Ops Mgr, EPC Group or Team Leader)

Print name and title: Terrill W. Lemke, EPC-CP Storm Water Permitting/Compliance Team Leader

Signature: (See signature on file) Date: _____

Maintenance Details

Requested: 7/25/2022 10:53:00 AM

Taken By: Banar, Alethea

Procedure: MSGP Quarterly Visual Assessment (EPC-CP-QP-2105 R1 Form 1)

Last PM: 7/15/2022

Project: Visual Assessments 7/1/22 (P-MSGP-5591)

Reason: MSGP Quarterly Visual Assessment

Target: 9/30/2022

Priority/Type: / Inspection

Department: Utilities and Infrastructure

 MSGP Program

 RG200.5

 TA-60 Roads and Grounds

 Monitored Outfall (037)

 **MSGP03701**

Contact:

Phone:

Tasks

| # | Description | Meas. | No | N/A | Yes |
|--|--|-----------------|-------------------------------------|--------------------------|-------------------------------------|
| The result of this VA applies to associated SIOs as defined in the SWPPP, where applicable. | | | | | |
| Sample information | | | | | |
| 30 | Document the monitoring period. | July-Sept | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 40 | Document the Date/Time Discharge began in the "Reading" field of this line (using mm/dd/yy hh:mm format). | 7/30/22 @ 13:26 | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 50 | Document the Date/time sample collected in the "Reading" field of this line (using mm/dd/yy hh:mm format). | 7/30/22 @ 13:26 | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 60 | Document the Date/time sample visually assessed in the "Reading" field of this line (using mm/dd/yy hh:mm format). | 8/1/22 @ 10:08 | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 70 | Document the nature of discharge (e.g., rain, snowmelt). Document the TOTAL amount (in) in the "Reading" field of this line. | Rain 1.56 | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 80 | Sample collected in first 30 minutes of discharge? If "Failed" or unknown, provide a reason. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Parameters | | | | | |
| 110 | Is sample colorless? If "Failed", describe. | Brown | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 120 | Is sample odorless? If "Failed", provide description (e.g. musty, sewage, sulfur, sour, solvent, petroleum/gas) | Musty | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 130 | Is sample clear? If "Failed", provide description (e.g., slightly cloudy, cloudy, opaque). | Cloudy | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 140 | Is sample free of floating solids? If "Failed", describe if raw or waste material(s) in the comments of this line. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 150 | Is sample free of settled solids? If "Failed", provide description (e.g., fine, course). | Fine | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 160 | Is sample free of suspended solids? If "Failed", provide description (e.g., fine, course). | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 170 | Is sample foamless after gently shaking? If "Failed" describe foam color and location (e.g., 'on the surface' or 'in the sample'). | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 180 | Is sample devoid of an oil sheen? If "Failed", describe color and thickness (e.g. flecks, globs). | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 190 | Is sample free of other obvious indicators of pollution? If "Failed", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Labor Report

Completed: 8/1/2022 10:08:00 AM

Report: Marwin Shendo



Signature / Name

8/8/2022

Date

Signature / Name

Date

I confirm the information as recorded is true, accurate and complete.

CERTIFICATION STATEMENT

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information contained therein. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information contained is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations".

(Signatory must meet definition in Section B.11.A, eg. FOD, Ops Mgr, EPC Group or Team Leader)

Print name and title: Terrill W. Lemke, EPC-CP Storm Water Permitting/Compliance Team Leader

Signature: (See signature on file) Date: _____

NMR050013 MSGP 2021
TA-60 Roads and Grounds

Quarterly Visual Assessment Forms,
Second Quarter, October through December 2022

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information contained therein. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information contained is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Terrill W. Lemke, EPC-CP Storm Water Permitting/Compliance Team
Leader
Los Alamos National Laboratory

TERRILL LEMKE Digitally signed by TERRILL
LEMKE (Affiliate)
(Affiliate) Date: 2023.01.09 17:28:30
-07'00'

Manager Signature

| Facility Name | Sampling Station | Work Order # |
|-------------------------|------------------|--------------|
| TA-60 Roads and Grounds | MSGP03301 | MSGP-66173 |
| TA-60 Roads and Grounds | MSGP03401 | MSGP-66174 |
| TA-60 Roads and Grounds | MSGP03501 | MSGP-66175 |
| TA-60 Roads and Grounds | MSGP03001 | MSGP-66176 |
| TA-60 Roads and Grounds | MSGP03201 | MSGP-66182 |
| TA-60 Roads and Grounds | MSGP03101 | MSGP-66193 |
| TA-60 Roads and Grounds | MSGP04201 | MSGP-66194 |

CERTIFICATION STATEMENT

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information contained therein. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information contained is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations".

(Signatory must meet definition in Section B.11.A, eg. FOD, Ops Mgr, EPC Group or Team Leader)

Print name and title: Terrill W. Lemke, EPC-CP Storm Water Permitting/Compliance Team Leader

Signature: (See signature on file) Date: _____

Maintenance Details

Requested: 10/3/2022 4:32:00 PM
Procedure: MSGP Quarterly Visual Assessment (EPC-CP-QP-2105 R1 Form 1)
Last PM: 10/3/2022
Project: Visual Assessments 7/1/22 (P-MSGP-5591)

Target: 12/31/2022
Priority/Type: Normal / Inspection
Department: Utilities and Infrastructure

MSGP Program
 RG200.5
 TA-60 Roads and Grounds
 Monitored Outfall (032)
 Substantially Identical Discharge Point (034)
 MSGP03401

Reason: MSGP Quarterly Visual Assessment

Contact:
Phone:

Tasks

| # | Description | Meas. | No | N/A | Yes |
|--|--|-----------------------|-------------------------------------|--------------------------|-------------------------------------|
| The result of this VA applies to associated SIOs as defined in the SWPPP, where applicable. | | | | | |
| Sample information | | | | | |
| 30 | Document the monitoring period. | Oct-Nov-Dec | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 40 | Document the Date/Time Discharge began in the "Reading" field of this line (using mm/dd/yy hh:mm format). | 10/03/22 13:15 | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 50 | Document the Date/time sample collected in the "Reading" field of this line (using mm/dd/yy hh:mm format). | 10/03/22 13:15 | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 60 | Document the Date/time sample visually assessed in the "Reading" field of this line (using mm/dd/yy hh:mm format). | 10/03/22 15:15 | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 70 | Document the nature of discharge (e.g., rain, snowmelt). Document the TOTAL amount (in) in the "Reading" field of this line. | rain 0.17"@RG200.5 | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 80 | Sample collected in first 30 minutes of discharge? If "Failed" or unknown, provide a reason. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Parameters | | | | | |
| 110 | Is sample colorless? If "Failed", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 120 | Is sample odorless? If "Failed", provide description (e.g. musty, sewage, sulfur, sour, solvent, petroleum/gas) | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 130 | Is sample clear? If "Failed", provide description (e.g., slightly cloudy, cloudy, opaque). | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 140 | Is sample free of floating solids? If "Failed", describe if raw or waste material(s) in the comments of this line. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 150 | Is sample free of settled solids? If "Failed", provide description (e.g., fine, course). | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 160 | Is sample free of suspended solids? If "Failed", provide description (e.g., fine, course). | fine | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 170 | Is sample foamless after gently shaking? If "Failed" describe foam color and location (e.g., 'on the surface' or 'in the sample'). | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 180 | Is sample devoid of an oil sheen? If "Failed", describe color and thickness (e.g. flecks, globs). | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 190 | Is sample free of other obvious indicators of pollution? If "Failed", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Labor Report

Completed: 10/3/2022 3:15:00 PM

Report: Brad Schilling



10/4/2022

Signature / Name

Date

Signature / Name

Date

I confirm the information as recorded is true, accurate and complete.

CERTIFICATION STATEMENT

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information contained therein. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information contained is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations".

(Signatory must meet definition in Section B.11.A, eg. FOD, Ops Mgr, EPC Group or Team Leader)

Print name and title: Terrill W. Lemke, EPC-CP Storm Water Permitting/Compliance Team Leader

Signature: (See signature on file) Date: _____

Maintenance Details

Requested: 10/3/2022 4:32:00 PM
Procedure: MSGP Quarterly Visual Assessment (EPC-CP-QP-2105 R1 Form 1)
Last PM: 10/3/2022
Project: Visual Assessments 7/1/22 (P-MSGP-5591)

Target: 12/31/2022
Priority/Type: Normal / Inspection
Department: Utilities and Infrastructure

MSGP Program
 RG200.5
 TA-60 Roads and Grounds
 Monitored Outfall (032)
 Substantially Identical Discharge Point (035)
 MSGP03501

Reason: MSGP Quarterly Visual Assessment

Contact:
Phone:

Tasks

| # | Description | Meas. | No | N/A | Yes |
|--|--|-----------------------|-------------------------------------|--------------------------|-------------------------------------|
| The result of this VA applies to associated SIOs as defined in the SWPPP, where applicable. | | | | | |
| Sample information | | | | | |
| 30 | Document the monitoring period. | Oct-Nov-Dec | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 40 | Document the Date/Time Discharge began in the "Reading" field of this line (using mm/dd/yy hh:mm format). | 10/03/22 13:15 | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 50 | Document the Date/time sample collected in the "Reading" field of this line (using mm/dd/yy hh:mm format). | 10/03/22 13:15 | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 60 | Document the Date/time sample visually assessed in the "Reading" field of this line (using mm/dd/yy hh:mm format). | 10/03/22 15:30 | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 70 | Document the nature of discharge (e.g., rain, snowmelt). Document the TOTAL amount (in) in the "Reading" field of this line. | rain 0.17"@RG200.5 | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 80 | Sample collected in first 30 minutes of discharge? If "Failed" or unknown, provide a reason. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Parameters | | | | | |
| 110 | Is sample colorless? If "Failed", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 120 | Is sample odorless? If "Failed", provide description (e.g. musty, sewage, sulfur, sour, solvent, petroleum/gas) | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 130 | Is sample clear? If "Failed", provide description (e.g., slightly cloudy, cloudy, opaque). | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 140 | Is sample free of floating solids? If "Failed", describe if raw or waste material(s) in the comments of this line. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 150 | Is sample free of settled solids? If "Failed", provide description (e.g., fine, course). | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 160 | Is sample free of suspended solids? If "Failed", provide description (e.g., fine, course). | fine | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 170 | Is sample foamless after gently shaking? If "Failed" describe foam color and location (e.g., 'on the surface' or 'in the sample'). | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 180 | Is sample devoid of an oil sheen? If "Failed", describe color and thickness (e.g. flecks, globs). | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 190 | Is sample free of other obvious indicators of pollution? If "Failed", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Labor Report

Completed: 10/3/2022 3:30:00 PM

Report: Brad Schilling



10/4/2022

Signature / Name

Date

Signature / Name

Date

I confirm the information as recorded is true, accurate and complete.

CERTIFICATION STATEMENT

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information contained therein. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information contained is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations".

(Signatory must meet definition in Section B.11.A, eg. FOD, Ops Mgr, EPC Group or Team Leader)

Print name and title: Terrill W. Lemke, EPC-CP Storm Water Permitting/Compliance Team Leader

Signature: (See signature on file) Date: _____

Maintenance Details

Requested: 10/3/2022 4:32:00 PM
Procedure: MSGP Quarterly Visual Assessment (EPC-CP-QP-2105 R1 Form 1)
Last PM: 10/3/2022
Project: Visual Assessments 7/1/22 (P-MSGP-5591)

Target: 12/31/2022
Priority/Type: Normal / Inspection
Department: Utilities and Infrastructure

MSGP Program
 RG200.5
 TA-60 Roads and Grounds
 Monitored Outfall (031)
 Substantially Identical Discharge Point (030)
 MSGP03001

Reason: MSGP Quarterly Visual Assessment

Contact:
Phone:

Tasks

| # | Description | Meas. | No | N/A | Yes |
|--|--|-----------------------|-------------------------------------|--------------------------|-------------------------------------|
| The result of this VA applies to associated SIOs as defined in the SWPPP, where applicable. | | | | | |
| Sample information | | | | | |
| 30 | Document the monitoring period. | Oct-Nov-Dec | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 40 | Document the Date/Time Discharge began in the "Reading" field of this line (using mm/dd/yy hh:mm format). | 10/03/22 13:15 | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 50 | Document the Date/time sample collected in the "Reading" field of this line (using mm/dd/yy hh:mm format). | 10/03/22 13:15 | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 60 | Document the Date/time sample visually assessed in the "Reading" field of this line (using mm/dd/yy hh:mm format). | 10/03/22 15:45 | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 70 | Document the nature of discharge (e.g., rain, snowmelt). Document the TOTAL amount (in) in the "Reading" field of this line. | rain 0.17"@RG200.5 | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 80 | Sample collected in first 30 minutes of discharge? If "Failed" or unknown, provide a reason. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Parameters | | | | | |
| 110 | Is sample colorless? If "Failed", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 120 | Is sample odorless? If "Failed", provide description (e.g. musty, sewage, sulfur, sour, solvent, petroleum/gas) | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 130 | Is sample clear? If "Failed", provide description (e.g., slightly cloudy, cloudy, opaque). | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 140 | Is sample free of floating solids? If "Failed", describe if raw or waste material(s) in the comments of this line. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 150 | Is sample free of settled solids? If "Failed", provide description (e.g., fine, course). | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 160 | Is sample free of suspended solids? If "Failed", provide description (e.g., fine, course). | fine | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 170 | Is sample foamless after gently shaking? If "Failed" describe foam color and location (e.g., 'on the surface' or 'in the sample'). | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 180 | Is sample devoid of an oil sheen? If "Failed", describe color and thickness (e.g. flecks, globs). | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 190 | Is sample free of other obvious indicators of pollution? If "Failed", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Labor Report

Completed: 10/3/2022 3:45:00 PM

Report: Brad Schilling

_____ 10/4/2022 _____
 Signature / Name Date Signature / Name Date

I confirm the information as recorded is true, accurate and complete.

CERTIFICATION STATEMENT

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information contained therein. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information contained is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations".

(Signatory must meet definition in Section B.11.A, eg. FOD, Ops Mgr, EPC Group or Team Leader)

Print name and title: Terrill W. Lemke, EPC-CP Storm Water Permitting/Compliance Team Leader

Signature: (See signature on file) Date: _____

Maintenance Details

Requested: 10/6/2022 2:54:00 PM

Target: 12/31/2022

 MSGP Program

Procedure: MSGP Quarterly Visual Assessment (EPC-CP-QP-2105 R1 Form 1)

Priority/Type: Normal / Inspection

 RG200.5

Department: Utilities and Infrastructure

 TA-60 Roads and Grounds

Last PM: 10/6/2022

 Monitored Outfall (032)

Project: Visual Assessments 10/1/22 (P-MSGP-5603)

 MSGP03201

Reason: MSGP Quarterly Visual Assessment

Contact:

Phone:

Tasks

| # | Description | Meas. | No | N/A | Yes |
|--|--|-----------------|-------------------------------------|--------------------------|-------------------------------------|
| The result of this VA applies to associated SIOs as defined in the SWPPP, where applicable. | | | | | |
| Sample information | | | | | |
| 30 | Document the monitoring period. | oct-dec | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 40 | Document the Date/Time Discharge began in the "Reading" field of this line (using mm/dd/yy hh:mm format). | 10/3/22 @ 18:04 | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 50 | Document the Date/time sample collected in the "Reading" field of this line (using mm/dd/yy hh:mm format). | 10/3/22 @ 18:04 | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 60 | Document the Date/time sample visually assessed in the "Reading" field of this line (using mm/dd/yy hh:mm format). | 10/6/22 @ 12:20 | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 70 | Document the nature of discharge (e.g., rain, snowmelt). Document the TOTAL amount (in) in the "Reading" field of this line. | rain 0.17 | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 80 | Sample collected in first 30 minutes of discharge? If "Failed" or unknown, provide a reason. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Parameters | | | | | |
| 110 | Is sample colorless? If "Failed", describe. | brown | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 120 | Is sample odorless? If "Failed", provide description (e.g. musty, sewage, sulfur, sour, solvent, petroleum/gas) | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 130 | Is sample clear? If "Failed", provide description (e.g., slightly cloudy, cloudy, opaque). | slightly couldy | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 140 | Is sample free of floating solids? If "Failed", describe if raw or waste material(s) in the comments of this line. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 150 | Is sample free of settled solids? If "Failed", provide description (e.g., fine, course). | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 160 | Is sample free of suspended solids? If "Failed", provide description (e.g., fine, course). | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 170 | Is sample foamless after gently shaking? If "Failed" describe foam color and location (e.g., 'on the surface' or 'in the sample'). | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 180 | Is sample devoid of an oil sheen? If "Failed", describe color and thickness (e.g. flecks, globs). | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 190 | Is sample free of other obvious indicators of pollution? If "Failed", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Labor Report

Completed: 10/6/2022 12:20:00 AM

Report: Marwin Shendo



10/12/2022

Signature / Name

Date

Signature / Name

Date

I confirm the information as recorded is true, accurate and complete.

CERTIFICATION STATEMENT

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information contained therein. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information contained is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations".

(Signatory must meet definition in Section B.11.A, eg. FOD, Ops Mgr, EPC Group or Team Leader)

Print name and title: Terrill W. Lemke, EPC-CP Storm Water Permitting/Compliance Team Leader

Signature: (See signature on file) Date: _____

Maintenance Details

Requested By: Banar, Alethea on
10/17/2022 4:03:00 PM

Target: 12/31/2022

 MSGP Program

Taken By: Banar, Alethea

Priority/Type: / Inspection

 RG200.5

Procedure: MSGP Quarterly Visual
Assessment (EPC-CP-
QP-2105 R1 Form 1)

Department: Utilities and Infrastructure

 TA-60 Roads and Grounds

Last PM: 10/13/2022

 Monitored Outfall (031)

Project: Visual Assessments
10/1/22 (P-MSGP-5603)

 **MSGP03101**

Contact: Banar, Alethea

Phone: 699-5836

Reason: MSGP Quarterly Visual Assessment

Tasks

| # | Description | Meas. | No | N/A | Yes |
|--|--|---------------------|-------------------------------------|--------------------------|-------------------------------------|
| The result of this VA applies to associated SIOs as defined in the SWPPP, where applicable. | | | | | |
| Sample information | | | | | |
| 30 | Document the monitoring period. | oct-dec | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 40 | Document the Date/Time Discharge began in the "Reading" field of this line (using mm/dd/yy hh:mm format). | 10/16/22 @ 2:35 | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 50 | Document the Date/time sample collected in the "Reading" field of this line (using mm/dd/yy hh:mm format). | 10/16/22 @ 2:35 | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 60 | Document the Date/time sample visually assessed in the "Reading" field of this line (using mm/dd/yy hh:mm format). | 10/17/22 @ 11:34 | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 70 | Document the nature of discharge (e.g., rain, snowmelt). Document the TOTAL amount (in) in the "Reading" field of this line. | rain 0.2 | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 80 | Sample collected in first 30 minutes of discharge? If "Failed" or unknown, provide a reason. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Parameters | | | | | |
| 110 | Is sample colorless? If "Failed", describe. | Brown | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 120 | Is sample odorless? If "Failed", provide description (e.g. musty, sewage, sulfur, sour, solvent, petroleum/gas) | musty | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 130 | Is sample clear? If "Failed", provide description (e.g., slightly cloudy, cloudy, opaque). | cloudy | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 140 | Is sample free of floating solids? If "Failed", describe if raw or waste material(s) in the comments of this line. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 150 | Is sample free of settled solids? If "Failed", provide description (e.g., fine, course). | coarse | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 160 | Is sample free of suspended solids? If "Failed", provide description (e.g., fine, course). | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 170 | Is sample foamless after gently shaking? If "Failed" describe foam color and location (e.g., 'on the surface' or 'in the sample'). | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 180 | Is sample devoid of an oil sheen? If "Failed", describe color and thickness (e.g. flecks, globs). | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 190 | Is sample free of other obvious indicators of pollution? If "Failed", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Labor Report

Completed: 10/17/2022 11:34:00 AM

Report: Marwin Shendo



10/25/2022

Signature / Name

Date

Signature / Name

Date

I confirm the information as recorded is true, accurate and complete.

CERTIFICATION STATEMENT

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information contained therein. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information contained is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations".

(Signatory must meet definition in Section B.11.A, eg. FOD, Ops Mgr, EPC Group or Team Leader)

Print name and title: Terrill W. Lemke, EPC-CP Storm Water Permitting/Compliance Team Leader

Signature: (See signature on file) Date: _____

Maintenance Details

Requested By: Banar, Alethea on
10/17/2022 4:04:00 PM

Target: 12/31/2022

 MSGP Program

Taken By: Banar, Alethea

Priority/Type: / Inspection

 RG200.5

Procedure: MSGP Quarterly Visual Assessment (EPC-CP-QP-2105 R1 Form 1)

Department: Utilities and Infrastructure

 TA-60 Roads and Grounds

 Monitored Outfall (042)

 **MSGP04201**

Last PM: 10/13/2022

Project: Visual Assessments
10/1/22 (P-MSGP-5603)

Contact: Banar, Alethea

Phone: 699-5836

Reason: MSGP Quarterly Visual Assessment

Tasks

| # | Description | Meas. | No | N/A | Yes |
|--|--|------------------|-------------------------------------|--------------------------|-------------------------------------|
| The result of this VA applies to associated SIOs as defined in the SWPPP, where applicable. | | | | | |
| Sample information | | | | | |
| 30 | Document the monitoring period. | oct-dec | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 40 | Document the Date/Time Discharge began in the "Reading" field of this line (using mm/dd/yy hh:mm format). | 10/16/22 @ 2:42 | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 50 | Document the Date/time sample collected in the "Reading" field of this line (using mm/dd/yy hh:mm format). | 10/16/22 @ 2:42 | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 60 | Document the Date/time sample visually assessed in the "Reading" field of this line (using mm/dd/yy hh:mm format). | 10/17/22 @ 11:54 | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 70 | Document the nature of discharge (e.g., rain, snowmelt). Document the TOTAL amount (in) in the "Reading" field of this line. | rain 0.2 | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 80 | Sample collected in first 30 minutes of discharge? If "Failed" or unknown, provide a reason. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Parameters | | | | | |
| 110 | Is sample colorless? If "Failed", describe. | brown | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 120 | Is sample odorless? If "Failed", provide description (e.g. musty, sewage, sulfur, sour, solvent, petroleum/gas) | musty | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 130 | Is sample clear? If "Failed", provide description (e.g., slightly cloudy, cloudy, opaque). | cloudy | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 140 | Is sample free of floating solids? If "Failed", describe if raw or waste material(s) in the comments of this line. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 150 | Is sample free of settled solids? If "Failed", provide description (e.g., fine, course). | fine | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 160 | Is sample free of suspended solids? If "Failed", provide description (e.g., fine, course). | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 170 | Is sample foamless after gently shaking? If "Failed" describe foam color and location (e.g., 'on the surface' or 'in the sample'). | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 180 | Is sample devoid of an oil sheen? If "Failed", describe color and thickness (e.g. flecks, globs). | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 190 | Is sample free of other obvious indicators of pollution? If "Failed", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Labor Report

Completed: 10/17/2022 11:54:00 AM

Report: Marwin Shendo



10/25/2022

Signature / Name

Date

Signature / Name

Date

I confirm the information as recorded is true, accurate and complete.

CERTIFICATION STATEMENT

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information contained therein. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information contained is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations".

(Signatory must meet definition in Section B.11.A, eg. FOD, Ops Mgr, EPC Group or Team Leader)

Print name and title: Terrill W. Lemke, EPC-CP Storm Water Permitting/Compliance Team Leader

Signature: (See signature on file) Date: _____

NMR050013 MSGP 2021
TA-60 Roads and Grounds

Quarterly Visual Assessment Forms,
Third Quarter, January through March 2022

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information contained therein. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information contained is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Terrill W. Lemke, EPC-CP Storm Water Permitting/Compliance Team
Leader

Los Alamos National Laboratory

TERRILL LEMKE Digitally signed by TERRILL
LEMKE (Affiliate)
(Affiliate) Date: 2022.11.18 11:05:41
-07'00'

Manager Signature

| Facility Name | Sampling Station | Work Order # |
|-------------------------|------------------|--------------|
| TA-60 Roads and Grounds | MSGP03001 | MSGP-65537 |
| TA-60 Roads and Grounds | MSGP03301 | MSGP-65681 |
| TA-60 Roads and Grounds | MSGP03401 | MSGP-65682 |
| TA-60 Roads and Grounds | MSGP03501 | MSGP-65683 |

CERTIFICATION STATEMENT

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations".

(Signatory must meet definition in Section B.11.A, eg. FOD, Ops Mgr, EPC Group or Team Leader)

Print name and title: Terrill W. Lemke, EPC-CP Storm Water Permitting/Compliance Team Leader

Signature: (See signature on file) Date: _____

Maintenance Details

Requested: 2/28/2022 10:52:00 AM

Target: 3/31/2022

 MSGP Program

Procedure: MSGP Quarterly Visual Assessment (EPC-CP-QP-2105 R1 Form 1)

Priority/Type: / Inspection

 RG200.5

 TA-60 Roads and Grounds

 Monitored Outfall (032)

 Substantially Identical Outfall (033)

 **MSGP03301**

Last PM: 3/1/2022

Project: Visual Assessments 1/1/22 (P-MSGP-5554)

Contact:

Phone:

Reason: MSGP Quarterly Visual Assessment

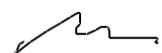
Tasks

| # | Description | Meas. | No | N/A | Yes |
|--|--|---|--------------------------|--------------------------|-------------------------------------|
| The result of this VA applies to associated SIOs as defined in the SWPPP, where applicable. | | | | | |
| Sample information | | | | | |
| 30 | Document the monitoring period. | Jan-March | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 40 | Document the Date/Time Discharge began in the "Reading" field of this line (using mm/dd/yy hh:mm format). | 3-1-22 11:00 | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 50 | Document the Date/time sample collected in the "Reading" field of this line (using mm/dd/yy hh:mm format). | 3-1-22 11:00 | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 60 | Document the Date/time sample visually assessed in the "Reading" field of this line (using mm/dd/yy hh:mm format). | 3-1-22 11:00 | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 70 | Document the nature of discharge (e.g., rain, snowmelt). Document the TOTAL amount (in) in the "Reading" field of this line. | snowmelt, .09 in. on 2-23-22 beginning at 21:15 | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 80 | Sample collected in first 30 minutes of discharge? If "Failed" or unknown, provide a reason. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Parameters | | | | | |
| 110 | Is sample colorless? If "Failed", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 120 | Is sample odorless? If "Failed", provide description (e.g. musty, sewage, sulfur, sour, solvent, petroleum/gas) | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 130 | Is sample clear? If "Failed", provide description (e.g., slightly cloudy, cloudy, opaque). | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 140 | Is sample free of floating solids? If "Failed", describe if raw or waste material(s) in the comments of this line. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 150 | Is sample free of settled solids? If "Failed", provide description (e.g., fine, course). | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 160 | Is sample free of suspended solids? If "Failed", provide description (e.g., fine, course). | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 170 | Is sample foamless after gently shaking? If "Failed" describe foam color and location (e.g., 'on the surface' or 'in the sample'). | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 180 | Is sample devoid of an oil sheen? If "Failed", describe color and thickness (e.g. flecks, globs). | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 190 | Is sample free of other obvious indicators of pollution? If "Failed", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Labor Report

Completed: 3/1/2022 11:00:00 AM

Report: Brad Schilling



3/2/2022

Signature / Name _____ Date _____
I confirm the information as recorded is true, accurate and complete.

Signature / Name _____ Date _____

CERTIFICATION STATEMENT

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations".

(Signatory must meet definition in Section B.11.A, eg. FOD, Ops Mgr, EPC Group or Team Leader)

Print name and title: Terrill W. Lemke, EPC-CP Storm Water Permitting/Compliance Team Leader

Signature: (See signature on file) Date: _____

Maintenance Details

Requested: 2/28/2022 10:52:00 AM

Target: 3/31/2022

 MSGP Program

Procedure: MSGP Quarterly Visual Assessment (EPC-CP-QP-2105 R1 Form 1)

Priority/Type: / Inspection

 RG200.5

 TA-60 Roads and Grounds

 Monitored Outfall (032)

 Substantially Identical Outfall (034)

 **MSGP03401**

Last PM: 3/1/2022

Project: Visual Assessments 1/1/22 (P-MSGP-5554)

Contact:

Phone:

Reason: MSGP Quarterly Visual Assessment

Tasks

| # | Description | Meas. | No | N/A | Yes |
|--|--|---|--------------------------|--------------------------|-------------------------------------|
| The result of this VA applies to associated SIOs as defined in the SWPPP, where applicable. | | | | | |
| Sample information | | | | | |
| 30 | Document the monitoring period. | Jan. - March | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 40 | Document the Date/Time Discharge began in the "Reading" field of this line (using mm/dd/yy hh:mm format). | 3-1-22, 11:15 | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 50 | Document the Date/time sample collected in the "Reading" field of this line (using mm/dd/yy hh:mm format). | 3-1-22, 11:15 | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 60 | Document the Date/time sample visually assessed in the "Reading" field of this line (using mm/dd/yy hh:mm format). | 3-1-22, 11:15 | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 70 | Document the nature of discharge (e.g., rain, snowmelt). Document the TOTAL amount (in) in the "Reading" field of this line. | snowmelt, 0.09 in. on 2-23-22 starting at 21:15 | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 80 | Sample collected in first 30 minutes of discharge? If "Failed" or unknown, provide a reason. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Parameters | | | | | |
| 110 | Is sample colorless? If "Failed", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 120 | Is sample odorless? If "Failed", provide description (e.g. musty, sewage, sulfur, sour, solvent, petroleum/gas) | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 130 | Is sample clear? If "Failed", provide description (e.g., slightly cloudy, cloudy, opaque). | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 140 | Is sample free of floating solids? If "Failed", describe if raw or waste material(s) in the comments of this line. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 150 | Is sample free of settled solids? If "Failed", provide description (e.g., fine, course). | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 160 | Is sample free of suspended solids? If "Failed", provide description (e.g., fine, course). | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 170 | Is sample foamless after gently shaking? If "Failed" describe foam color and location (e.g., 'on the surface' or 'in the sample'). | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 180 | Is sample devoid of an oil sheen? If "Failed", describe color and thickness (e.g. flecks, globs). | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 190 | Is sample free of other obvious indicators of pollution? If "Failed", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Labor Report

Completed: 3/1/2022 11:15:00 AM

Report: Brad Schilling



3/2/2022

Signature / Name _____ Date _____
I confirm the information as recorded is true, accurate and complete.

Signature / Name _____

Date _____

CERTIFICATION STATEMENT

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations".

(Signatory must meet definition in Section B.11.A, eg. FOD, Ops Mgr, EPC Group or Team Leader)

Print name and title: Terrill W. Lemke, EPC-CP Storm Water Permitting/Compliance Team Leader

Signature: (See signature on file) Date: _____

Maintenance Details

Requested: 2/28/2022 10:52:00 AM
Procedure: MSGP Quarterly Visual Assessment (EPC-CP-QP-2105 R1 Form 1)
Last PM: 3/1/2022
Project: Visual Assessments 1/1/22 (P-MSGP-5554)

Target: 3/31/2022
Priority/Type: / Inspection
Department: Utilities and Infrastructure

MSGP Program
 RG200.5
 TA-60 Roads and Grounds
 Monitored Outfall (032)
 Substantially Identical Outfall (035)
MSGP03501

Reason: MSGP Quarterly Visual Assessment

Contact:
Phone:

Tasks

| # | Description | Meas. | No | N/A | Yes |
|--|--|---|--------------------------|--------------------------|-------------------------------------|
| The result of this VA applies to associated SIOs as defined in the SWPPP, where applicable. | | | | | |
| Sample information | | | | | |
| 30 | Document the monitoring period. | Jan-March | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 40 | Document the Date/Time Discharge began in the "Reading" field of this line (using mm/dd/yy hh:mm format). | 3-1-22, 11:30 | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 50 | Document the Date/time sample collected in the "Reading" field of this line (using mm/dd/yy hh:mm format). | 3-1-22, 11:30 | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 60 | Document the Date/time sample visually assessed in the "Reading" field of this line (using mm/dd/yy hh:mm format). | 3-1-22, 11:30 | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 70 | Document the nature of discharge (e.g., rain, snowmelt). Document the TOTAL amount (in) in the "Reading" field of this line. | snowmelt, 0.09 in. on 2-23-22 starting at 21:15 | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 80 | Sample collected in first 30 minutes of discharge? If "Failed" or unknown, provide a reason. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Parameters | | | | | |
| 110 | Is sample colorless? If "Failed", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 120 | Is sample odorless? If "Failed", provide description (e.g. musty, sewage, sulfur, sour, solvent, petroleum/gas) | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 130 | Is sample clear? If "Failed", provide description (e.g., slightly cloudy, cloudy, opaque). | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 140 | Is sample free of floating solids? If "Failed", describe if raw or waste material(s) in the comments of this line. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 150 | Is sample free of settled solids? If "Failed", provide description (e.g., fine, course). | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 160 | Is sample free of suspended solids? If "Failed", provide description (e.g., fine, course). | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 170 | Is sample foamless after gently shaking? If "Failed" describe foam color and location (e.g., 'on the surface' or 'in the sample'). | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 180 | Is sample devoid of an oil sheen? If "Failed", describe color and thickness (e.g. flecks, globs). | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 190 | Is sample free of other obvious indicators of pollution? If "Failed", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Labor Report

Completed: 3/1/2022 11:30:00 AM

Report: Brad Schilling



3/2/2022

Signature / Name _____ Date _____
I confirm the information as recorded is true, accurate and complete.

Signature / Name _____ Date _____

CERTIFICATION STATEMENT

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations".

(Signatory must meet definition in Section B.11.A, eg. FOD, Ops Mgr, EPC Group or Team Leader)

Print name and title: Terrill W. Lemke, EPC-CP Storm Water Permitting/Compliance Team Leader

Signature: (See signature on file) Date: _____

NMR050013 MSGP 2021
TA-60 Roads and Grounds

Quarterly Visual Assessment Forms,
Fourth Quarter, April through June 2022

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information contained therein. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information contained is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Terrill W. Lemke, EPC-CP Storm Water Permitting/Compliance Team
Leader

Los Alamos National Laboratory

TERRILL LEMKE Digitally signed by TERRILL
LEMKE (Affiliate)
(Affiliate) Date: 2022.11.18 11:13:11
-07'00'

Manager Signature

| Facility Name | Sampling Station | Work Order # |
|-------------------------|------------------|--------------|
| TA-60 Roads and Grounds | MSGP03301 | MSGP-65983 |
| TA-60 Roads and Grounds | MSGP03401 | MSGP-65984 |
| TA-60 Roads and Grounds | MSGP03001 | MSGP-65985 |
| TA-60 Roads and Grounds | MSGP03501 | MSGP-65986 |
| TA-60 Roads and Grounds | MSGP03201 | MSGP-66005 |
| TA-60 Roads and Grounds | MSGP04201 | MSGP-66006 |
| TA-60 Roads and Grounds | MSGP03101 | MSGP-66017 |
| TA-60 Roads and Grounds | MSGP03901 | MSGP-66018 |
| TA-60 Roads and Grounds | MSGP03701 | MSGP-66019 |

Maintenance Details

Requested: 6/20/2022 3:59:00 PM
Procedure: MSGP Quarterly Visual Assessment (EPC-CP-QP-2105 R1 Form 1)
Last PM: 6/20/2022
Project: Visual Assessments 4/1/22 (P-MSGP-5585)

Target: 6/30/2022
Priority/Type: Normal / Inspection
Department: Utilities and Infrastructure

MSGP Program
 RG200.5
 TA-60 Roads and Grounds
 Monitored Outfall (032)
 Substantially Identical Outfall (033)
MSGP03301

Reason: MSGP Quarterly Visual Assessment

Contact:
Phone:

Tasks

| # | Description | Meas. | No | N/A | Yes |
|--|--|--------------------|-------------------------------------|--------------------------|-------------------------------------|
| The result of this VA applies to associated SIOs as defined in the SWPPP, where applicable. | | | | | |
| Sample information | | | | | |
| 30 | Document the monitoring period. | April-June | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 40 | Document the Date/Time Discharge began in the "Reading" field of this line (using mm/dd/yy hh:mm format). | 6-18-22 16:20 | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 50 | Document the Date/time sample collected in the "Reading" field of this line (using mm/dd/yy hh:mm format). | 6-18-22 16:20 | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 60 | Document the Date/time sample visually assessed in the "Reading" field of this line (using mm/dd/yy hh:mm format). | 6-20-22 9:15 AM | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 70 | Document the nature of discharge (e.g., rain, snowmelt). Document the TOTAL amount (in) in the "Reading" field of this line. | Rain .21 Inches | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 80 | Sample collected in first 30 minutes of discharge? If "Failed" or unknown, provide a reason. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Parameters | | | | | |
| 110 | Is sample colorless? If "Failed", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 120 | Is sample odorless? If "Failed", provide description (e.g. musty, sewage, sulfur, sour, solvent, petroleum/gas) | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 130 | Is sample clear? If "Failed", provide description (e.g., slightly cloudy, cloudy, opaque). | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 140 | Is sample free of floating solids? If "Failed", describe if raw or waste material(s) in the comments of this line. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 150 | Is sample free of settled solids? If "Failed", provide description (e.g., fine, course). | course | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 160 | Is sample free of suspended solids? If "Failed", provide description (e.g., fine, course). | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 170 | Is sample foamless after gently shaking? If "Failed" describe foam color and location (e.g., 'on the surface' or 'in the sample'). | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 180 | Is sample devoid of an oil sheen? If "Failed", describe color and thickness (e.g. flecks, globs). | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 190 | Is sample free of other obvious indicators of pollution? If "Failed", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Labor Report

Completed: 6/20/2022 9:15:00 AM

Report: Brad Schilling

6/24/2022

Signature / Name

Date

Signature / Name

Date

I confirm the information as recorded is true, accurate and complete.

CERTIFICATION STATEMENT

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information contained therein. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information contained is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations".

(Signatory must meet definition in Section B.11.A, eg. FOD, Ops Mgr, EPC Group or Team Leader)

Print name and title: Terrill W. Lemke, EPC-CP Storm Water Permitting/Compliance Team Leader

Signature: (See signature on file) Date: _____

Maintenance Details

Requested: 6/20/2022 3:59:00 PM
Procedure: MSGP Quarterly Visual Assessment (EPC-CP-QP-2105 R1 Form 1)
Last PM: 6/20/2022
Project: Visual Assessments 4/1/22 (P-MSGP-5585)

Target: 6/30/2022
Priority/Type: Normal / Inspection
Department: Utilities and Infrastructure

MSGP Program
 RG200.5
 TA-60 Roads and Grounds
 Monitored Outfall (032)
 Substantially Identical Outfall (034)
MSGP03401

Reason: MSGP Quarterly Visual Assessment

Contact:
Phone:

Tasks

| # | Description | Meas. | No | N/A | Yes |
|--|--|--------------------|-------------------------------------|--------------------------|-------------------------------------|
| The result of this VA applies to associated SIOs as defined in the SWPPP, where applicable. | | | | | |
| Sample information | | | | | |
| 30 | Document the monitoring period. | April-June | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 40 | Document the Date/Time Discharge began in the "Reading" field of this line (using mm/dd/yy hh:mm format). | 6-18-22 16:20 | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 50 | Document the Date/time sample collected in the "Reading" field of this line (using mm/dd/yy hh:mm format). | 6-18-22 16:20 | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 60 | Document the Date/time sample visually assessed in the "Reading" field of this line (using mm/dd/yy hh:mm format). | 6-20-22 9:30 AM | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 70 | Document the nature of discharge (e.g., rain, snowmelt). Document the TOTAL amount (in) in the "Reading" field of this line. | Rain .21 Inches | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 80 | Sample collected in first 30 minutes of discharge? If "Failed" or unknown, provide a reason. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Parameters | | | | | |
| 110 | Is sample colorless? If "Failed", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 120 | Is sample odorless? If "Failed", provide description (e.g. musty, sewage, sulfur, sour, solvent, petroleum/gas) | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 130 | Is sample clear? If "Failed", provide description (e.g., slightly cloudy, cloudy, opaque). | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 140 | Is sample free of floating solids? If "Failed", describe if raw or waste material(s) in the comments of this line. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 150 | Is sample free of settled solids? If "Failed", provide description (e.g., fine, course). | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 160 | Is sample free of suspended solids? If "Failed", provide description (e.g., fine, course). | Course | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 170 | Is sample foamless after gently shaking? If "Failed" describe foam color and location (e.g., 'on the surface' or 'in the sample'). | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 180 | Is sample devoid of an oil sheen? If "Failed", describe color and thickness (e.g. flecks, globs). | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 190 | Is sample free of other obvious indicators of pollution? If "Failed", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Labor Report

Completed: 6/20/2022 9:30:00 AM

Report: Brad Schilling

6/24/2022

Signature / Name

Date

Signature / Name

Date

I confirm the information as recorded is true, accurate and complete.

CERTIFICATION STATEMENT

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information contained therein. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information contained is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations".

(Signatory must meet definition in Section B.11.A, eg. FOD, Ops Mgr, EPC Group or Team Leader)

Print name and title: Terrill W. Lemke, EPC-CP Storm Water Permitting/Compliance Team Leader

Signature: (See signature on file) Date: _____

Maintenance Details

Requested: 6/20/2022 3:59:00 PM
Procedure: MSGP Quarterly Visual Assessment (EPC-CP-QP-2105 R1 Form 1)
Last PM: 6/20/2022
Project: Visual Assessments 4/1/22 (P-MSGP-5585)

Target: 6/30/2022
Priority/Type: Normal / Inspection
Department: Utilities and Infrastructure

MSGP Program
 RG200.5
 TA-60 Roads and Grounds
 Monitored Outfall (031)
 Substantially Identical Outfall (030)
MSGP03001

Reason: MSGP Quarterly Visual Assessment

Contact:
Phone:

Tasks

| # | Description | Meas. | No | N/A | Yes |
|--|--|------------------|-------------------------------------|--------------------------|-------------------------------------|
| The result of this VA applies to associated SIOs as defined in the SWPPP, where applicable. | | | | | |
| Sample information | | | | | |
| 30 | Document the monitoring period. | April-June 2022 | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 40 | Document the Date/Time Discharge began in the "Reading" field of this line (using mm/dd/yy hh:mm format). | 06/19/22 18:20 | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 50 | Document the Date/time sample collected in the "Reading" field of this line (using mm/dd/yy hh:mm format). | 06/19/22 18:20 | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 60 | Document the Date/time sample visually assessed in the "Reading" field of this line (using mm/dd/yy hh:mm format). | 06/20/22 10:00 | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 70 | Document the nature of discharge (e.g., rain, snowmelt). Document the TOTAL amount (in) in the "Reading" field of this line. | Rain 0.74 inches | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 80 | Sample collected in first 30 minutes of discharge? If "Failed" or unknown, provide a reason. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Parameters | | | | | |
| 110 | Is sample colorless? If "Failed", describe. | light brown | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 120 | Is sample odorless? If "Failed", provide description (e.g. musty, sewage, sulfur, sour, solvent, petroleum/gas) | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 130 | Is sample clear? If "Failed", provide description (e.g., slightly cloudy, cloudy, opaque). | opaque | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 140 | Is sample free of floating solids? If "Failed", describe if raw or waste material(s) in the comments of this line. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 150 | Is sample free of settled solids? If "Failed", provide description (e.g., fine, course). | Fine | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 160 | Is sample free of suspended solids? If "Failed", provide description (e.g., fine, course). | Fine | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 170 | Is sample foamless after gently shaking? If "Failed" describe foam color and location (e.g., 'on the surface' or 'in the sample'). | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 180 | Is sample devoid of an oil sheen? If "Failed", describe color and thickness (e.g. flecks, globs). | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 190 | Is sample free of other obvious indicators of pollution? If "Failed", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Labor Report

Completed: 6/20/2022 10:00:00 AM

Report: 6/22/2022 - 118432: Holly Wheeler

Signature / Name

6/22/2022
 Date

Signature / Name

Date

I confirm the information as recorded is true, accurate and complete.

CERTIFICATION STATEMENT

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information contained therein. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information contained is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations".

(Signatory must meet definition in Section B.11.A, eg. FOD, Ops Mgr, EPC Group or Team Leader)

Print name and title: Terrill W. Lemke, EPC-CP Storm Water Permitting/Compliance Team Leader

Signature: (See signature on file) Date: _____

Maintenance Details

Requested By: Banar, Alethea on
6/23/2022 8:09:00 AM

Taken By: Banar, Alethea

Procedure: MSGP Quarterly Visual
Assessment (EPC-CP-
QP-2105 R1 Form 1)

Last PM: 6/23/2022

Project: Visual Assessments
4/1/22 (P-MSGP-5585)

Reason: MSGP Quarterly Visual Assessment

Target: 6/30/2022

Priority/Type: / Inspection

Department: Utilities and Infrastructure

 MSGP Program

 RG200.5

 TA-60 Roads and Grounds

 Monitored Outfall (032)

 Substantially Identical Outfall (035)

 **MSGP03501**

Contact: Banar, Alethea

Phone: 699-5836

Tasks

| # | Description | Meas. | No | N/A | Yes |
|--|--|---------------------|-------------------------------------|--------------------------|-------------------------------------|
| The result of this VA applies to associated SIOs as defined in the SWPPP, where applicable. | | | | | |
| Sample information | | | | | |
| 30 | Document the monitoring period. | April-June | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 40 | Document the Date/Time Discharge began in the "Reading" field of this line (using mm/dd/yy hh:mm format). | 6-22-22 07:50 | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 50 | Document the Date/time sample collected in the "Reading" field of this line (using mm/dd/yy hh:mm format). | 6-22-22 07:50 | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 60 | Document the Date/time sample visually assessed in the "Reading" field of this line (using mm/dd/yy hh:mm format). | 6-23-22 12:00 | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 70 | Document the nature of discharge (e.g., rain, snowmelt). Document the TOTAL amount (in) in the "Reading" field of this line. | Rain 0.71 inches | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 80 | Sample collected in first 30 minutes of discharge? If "Failed" or unknown, provide a reason. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Parameters | | | | | |
| 110 | Is sample colorless? If "Failed", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 120 | Is sample odorless? If "Failed", provide description (e.g. musty, sewage, sulfur, sour, solvent, petroleum/gas) | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 130 | Is sample clear? If "Failed", provide description (e.g., slightly cloudy, cloudy, opaque). | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 140 | Is sample free of floating solids? If "Failed", describe if raw or waste material(s) in the comments of this line. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 150 | Is sample free of settled solids? If "Failed", provide description (e.g., fine, course). | course | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 160 | Is sample free of suspended solids? If "Failed", provide description (e.g., fine, course). | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 170 | Is sample foamless after gently shaking? If "Failed" describe foam color and location (e.g., 'on the surface' or 'in the sample'). | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 180 | Is sample devoid of an oil sheen? If "Failed", describe color and thickness (e.g. flecks, globs). | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 190 | Is sample free of other obvious indicators of pollution? If "Failed", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Labor Report

Completed: 6/23/2022 12:00:00 PM

Report: Brad Schilling



Signature / Name

6/24/2022

Date

Signature / Name

Date

I confirm the information as recorded is true, accurate and complete.

CERTIFICATION STATEMENT

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information contained therein. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information contained is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations".

(Signatory must meet definition in Section B.11.A, eg. FOD, Ops Mgr, EPC Group or Team Leader)

Print name and title: Terrill W. Lemke, EPC-CP Storm Water Permitting/Compliance Team Leader

Signature: (See signature on file) Date: _____

Maintenance Details

Requested: 6/23/2022 7:10:00 PM

Target: 6/30/2022

 MSGP Program

Procedure: MSGP Quarterly Visual Assessment (EPC-CP-QP-2105 R1 Form 1)

Priority/Type: Normal / Inspection

 RG200.5

Department: Utilities and Infrastructure

 TA-60 Roads and Grounds

Last PM: 6/23/2022

 Monitored Outfall (032)

Project: Visual Assessments 4/1/22 (P-MSGP-5585)

 **MSGP03201**

Reason: MSGP Quarterly Visual Assessment

Contact:

Phone:

Tasks

| # | Description | Meas. | No | N/A | Yes |
|--|--|---------------|-------------------------------------|--------------------------|-------------------------------------|
| The result of this VA applies to associated SIOs as defined in the SWPPP, where applicable. | | | | | |
| Sample information | | | | | |
| 30 | Document the monitoring period. | April-June | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 40 | Document the Date/Time Discharge began in the "Reading" field of this line (using mm/dd/yy hh:mm format). | 6/22/22 9:06 | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 50 | Document the Date/time sample collected in the "Reading" field of this line (using mm/dd/yy hh:mm format). | 6/22/22 9:06 | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 60 | Document the Date/time sample visually assessed in the "Reading" field of this line (using mm/dd/yy hh:mm format). | 6/23/22 10:12 | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 70 | Document the nature of discharge (e.g., rain, snowmelt). Document the TOTAL amount (in) in the "Reading" field of this line. | Rain .71 | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 80 | Sample collected in first 30 minutes of discharge? If "Failed" or unknown, provide a reason. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Parameters | | | | | |
| 110 | Is sample colorless? If "Failed", describe. | brown | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 120 | Is sample odorless? If "Failed", provide description (e.g. musty, sewage, sulfur, sour, solvent, petroleum/gas) | musty | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 130 | Is sample clear? If "Failed", provide description (e.g., slightly cloudy, cloudy, opaque). | cloudy | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 140 | Is sample free of floating solids? If "Failed", describe if raw or waste material(s) in the comments of this line. | coarse | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 150 | Is sample free of settled solids? If "Failed", provide description (e.g., fine, course). | coarse | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 160 | Is sample free of suspended solids? If "Failed", provide description (e.g., fine, course). | coarse | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 170 | Is sample foamless after gently shaking? If "Failed" describe foam color and location (e.g., 'on the surface' or 'in the sample'). | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 180 | Is sample devoid of an oil sheen? If "Failed", describe color and thickness (e.g. flecks, globs). | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 190 | Is sample free of other obvious indicators of pollution? If "Failed", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Labor Report

Completed: 6/23/2022 10:12:00 AM

Report: Marwin Shendo



6/24/2022

Signature / Name

Date

Signature / Name

Date

I confirm the information as recorded is true, accurate and complete.

CERTIFICATION STATEMENT

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information contained therein. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information contained is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations".

(Signatory must meet definition in Section B.11.A, eg. FOD, Ops Mgr, EPC Group or Team Leader)

Print name and title: Terrill W. Lemke, EPC-CP Storm Water Permitting/Compliance Team Leader

Signature: (See signature on file) Date: _____

Maintenance Details

Requested: 6/23/2022 7:10:00 PM

Target: 6/30/2022

 MSGP Program

Procedure: MSGP Quarterly Visual Assessment (EPC-CP-QP-2105 R1 Form 1)

Priority/Type: Normal / Inspection

 RG200.5

Department: Utilities and Infrastructure

 TA-60 Roads and Grounds

Last PM: 6/23/2022

 Monitored Outfall (042)

Project: Visual Assessments 4/1/22 (P-MSGP-5585)

 **MSGP04201**

Reason: MSGP Quarterly Visual Assessment

Contact:

Phone:

Tasks

| # | Description | Meas. | No | N/A | Yes |
|--|--|------------------|-------------------------------------|--------------------------|-------------------------------------|
| The result of this VA applies to associated SIOs as defined in the SWPPP, where applicable. | | | | | |
| Sample information | | | | | |
| 30 | Document the monitoring period. | April-June | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 40 | Document the Date/Time Discharge began in the "Reading" field of this line (using mm/dd/yy hh:mm format). | 6/22/22 14:56 | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 50 | Document the Date/time sample collected in the "Reading" field of this line (using mm/dd/yy hh:mm format). | 6/22/22 14:56 | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 60 | Document the Date/time sample visually assessed in the "Reading" field of this line (using mm/dd/yy hh:mm format). | 6/23/22 10:35 | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 70 | Document the nature of discharge (e.g., rain, snowmelt). Document the TOTAL amount (in) in the "Reading" field of this line. | rain .71 | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 80 | Sample collected in first 30 minutes of discharge? If "Failed" or unknown, provide a reason. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Parameters | | | | | |
| 110 | Is sample colorless? If "Failed", describe. | brown | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 120 | Is sample odorless? If "Failed", provide description (e.g. musty, sewage, sulfur, sour, solvent, petroleum/gas) | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 130 | Is sample clear? If "Failed", provide description (e.g., slightly cloudy, cloudy, opaque). | cloudy | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 140 | Is sample free of floating solids? If "Failed", describe if raw or waste material(s) in the comments of this line. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 150 | Is sample free of settled solids? If "Failed", provide description (e.g., fine, course). | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 160 | Is sample free of suspended solids? If "Failed", provide description (e.g., fine, course). | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 170 | Is sample foamless after gently shaking? If "Failed" describe foam color and location (e.g., 'on the surface' or 'in the sample'). | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 180 | Is sample devoid of an oil sheen? If "Failed", describe color and thickness (e.g. flecks, globs). | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 190 | Is sample free of other obvious indicators of pollution? If "Failed", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Labor Report

Completed: 6/23/2022 10:35:00 AM

Report: Marwin Shendo



6/24/2022

Signature / Name

Date

Signature / Name

Date

I confirm the information as recorded is true, accurate and complete.

CERTIFICATION STATEMENT

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information contained therein. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information contained is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations".

(Signatory must meet definition in Section B.11.A, eg. FOD, Ops Mgr, EPC Group or Team Leader)

Print name and title: Terrill W. Lemke, EPC-CP Storm Water Permitting/Compliance Team Leader

Signature: (See signature on file) Date: _____

Maintenance Details

Requested: 6/30/2022 10:10:00 AM

Target: 6/30/2022

 MSGP Program

Procedure: MSGP Quarterly Visual Assessment (EPC-CP-QP-2105 R1 Form 1)

Priority/Type: Normal / Inspection

 RG200.5

Department: Utilities and Infrastructure

 TA-60 Roads and Grounds

Last PM: 6/27/2022

 Monitored Outfall (031)

Project: Visual Assessments 4/1/22 (P-MSGP-5585)

 **MSGP03101**

Reason: MSGP Quarterly Visual Assessment

Contact:

Phone:

Tasks

| # | Description | Meas. | No | N/A | Yes |
|--|--|------------------|-------------------------------------|--------------------------|-------------------------------------|
| The result of this VA applies to associated SIOs as defined in the SWPPP, where applicable. | | | | | |
| Sample information | | | | | |
| 30 | Document the monitoring period. | apr-jun | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 40 | Document the Date/Time Discharge began in the "Reading" field of this line (using mm/dd/yy hh:mm format). | 6/25/22 15:24 | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 50 | Document the Date/time sample collected in the "Reading" field of this line (using mm/dd/yy hh:mm format). | 6/25/22 15:24 | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 60 | Document the Date/time sample visually assessed in the "Reading" field of this line (using mm/dd/yy hh:mm format). | 6/27/22 11:00 | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 70 | Document the nature of discharge (e.g., rain, snowmelt). Document the TOTAL amount (in) in the "Reading" field of this line. | rain 1.38 | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 80 | Sample collected in first 30 minutes of discharge? If "Failed" or unknown, provide a reason. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Parameters | | | | | |
| 110 | Is sample colorless? If "Failed", describe. | brown | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 120 | Is sample odorless? If "Failed", provide description (e.g. musty, sewage, sulfur, sour, solvent, petroleum/gas) | musty | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 130 | Is sample clear? If "Failed", provide description (e.g., slightly cloudy, cloudy, opaque). | opaque | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 140 | Is sample free of floating solids? If "Failed", describe if raw or waste material(s) in the comments of this line. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 150 | Is sample free of settled solids? If "Failed", provide description (e.g., fine, course). | fine | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 160 | Is sample free of suspended solids? If "Failed", provide description (e.g., fine, course). | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 170 | Is sample foamless after gently shaking? If "Failed" describe foam color and location (e.g., 'on the surface' or 'in the sample'). | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 180 | Is sample devoid of an oil sheen? If "Failed", describe color and thickness (e.g. flecks, globs). | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 190 | Is sample free of other obvious indicators of pollution? If "Failed", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Labor Report

Completed: 6/27/2022 11:00:00 AM

Report: Marwin Shendo



7/1/2022

Signature / Name

Date

Signature / Name

Date

I confirm the information as recorded is true, accurate and complete.

CERTIFICATION STATEMENT

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information contained therein. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information contained is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations".

(Signatory must meet definition in Section B.11.A, eg. FOD, Ops Mgr, EPC Group or Team Leader)

Print name and title: Terrill W. Lemke, EPC-CP Storm Water Permitting/Compliance Team Leader

Signature: (See signature on file) Date: _____

Maintenance Details

Requested: 6/30/2022 10:10:00 AM

Target: 6/30/2022

 MSGP Program

Procedure: MSGP Quarterly Visual Assessment (EPC-CP-QP-2105 R1 Form 1)

Priority/Type: Normal / Inspection

 RG200.5

Department: Utilities and Infrastructure

 TA-60 Roads and Grounds

Last PM: 6/27/2022

 Monitored Outfall (039)

Project: Visual Assessments 4/1/22 (P-MSGP-5585)

 **MSGP03901**

Reason: MSGP Quarterly Visual Assessment

Contact:

Phone:

Tasks

| # | Description | Meas. | No | N/A | Yes |
|--|--|------------------|-------------------------------------|--------------------------|-------------------------------------|
| The result of this VA applies to associated SIOs as defined in the SWPPP, where applicable. | | | | | |
| Sample information | | | | | |
| 30 | Document the monitoring period. | apr-jun | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 40 | Document the Date/Time Discharge began in the "Reading" field of this line (using mm/dd/yy hh:mm format). | 6/27/22 15:18 | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 50 | Document the Date/time sample collected in the "Reading" field of this line (using mm/dd/yy hh:mm format). | 6/27/22 15:18 | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 60 | Document the Date/time sample visually assessed in the "Reading" field of this line (using mm/dd/yy hh:mm format). | 6/27/22 15:18 | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 70 | Document the nature of discharge (e.g., rain, snowmelt). Document the TOTAL amount (in) in the "Reading" field of this line. | rain .48 | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 80 | Sample collected in first 30 minutes of discharge? If "Failed" or unknown, provide a reason. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Parameters | | | | | |
| 110 | Is sample colorless? If "Failed", describe. | brown | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 120 | Is sample odorless? If "Failed", provide description (e.g. musty, sewage, sulfur, sour, solvent, petroleum/gas) | musty | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 130 | Is sample clear? If "Failed", provide description (e.g., slightly cloudy, cloudy, opaque). | opaque | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 140 | Is sample free of floating solids? If "Failed", describe if raw or waste material(s) in the comments of this line. | veg | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 150 | Is sample free of settled solids? If "Failed", provide description (e.g., fine, course). | fine | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 160 | Is sample free of suspended solids? If "Failed", provide description (e.g., fine, course). | coarse | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 170 | Is sample foamless after gently shaking? If "Failed" describe foam color and location (e.g., 'on the surface' or 'in the sample'). | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 180 | Is sample devoid of an oil sheen? If "Failed", describe color and thickness (e.g. flecks, globs). | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 190 | Is sample free of other obvious indicators of pollution? If "Failed", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Labor Report

Completed: 6/27/2022 3:18:00 PM

Report: Marwin Shendo



7/1/2022

Signature / Name

Date

Signature / Name

Date

I confirm the information as recorded is true, accurate and complete.

CERTIFICATION STATEMENT

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information contained therein. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information contained is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations".

(Signatory must meet definition in Section B.11.A, eg. FOD, Ops Mgr, EPC Group or Team Leader)

Print name and title: Terrill W. Lemke, EPC-CP Storm Water Permitting/Compliance Team Leader

Signature: (See signature on file) Date: _____

Maintenance Details

Requested: 6/30/2022 10:10:00 AM
Procedure: MSGP Quarterly Visual Assessment (EPC-CP-QP-2105 R1 Form 1)
Last PM: 6/28/2022
Project: Visual Assessments 4/1/22 (P-MSGP-5585)

Target: 6/30/2022
Priority/Type: Normal / Inspection
Department: Utilities and Infrastructure

 MSGP Program
 RG200.5
 TA-60 Roads and Grounds
 Monitored Outfall (037)
 **MSGP03701**

Reason: MSGP Quarterly Visual Assessment

Contact:
Phone:

Tasks

| # | Description | Meas. | No | N/A | Yes |
|--|--|------------------|-------------------------------------|--------------------------|-------------------------------------|
| The result of this VA applies to associated SIOs as defined in the SWPPP, where applicable. | | | | | |
| Sample information | | | | | |
| 30 | Document the monitoring period. | apr-jun | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 40 | Document the Date/Time Discharge began in the "Reading" field of this line (using mm/dd/yy hh:mm format). | 6/27/22 15:15 | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 50 | Document the Date/time sample collected in the "Reading" field of this line (using mm/dd/yy hh:mm format). | 6/27/22 15:15 | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 60 | Document the Date/time sample visually assessed in the "Reading" field of this line (using mm/dd/yy hh:mm format). | 6/28/22 12:00 | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 70 | Document the nature of discharge (e.g., rain, snowmelt). Document the TOTAL amount (in) in the "Reading" field of this line. | rain .48 | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 80 | Sample collected in first 30 minutes of discharge? If "Failed" or unknown, provide a reason. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Parameters | | | | | |
| 110 | Is sample colorless? If "Failed", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 120 | Is sample odorless? If "Failed", provide description (e.g. musty, sewage, sulfur, sour, solvent, petroleum/gas) | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 130 | Is sample clear? If "Failed", provide description (e.g., slightly cloudy, cloudy, opaque). | slightly cloudy | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 140 | Is sample free of floating solids? If "Failed", describe if raw or waste material(s) in the comments of this line. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 150 | Is sample free of settled solids? If "Failed", provide description (e.g., fine, course). | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 160 | Is sample free of suspended solids? If "Failed", provide description (e.g., fine, course). | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 170 | Is sample foamless after gently shaking? If "Failed" describe foam color and location (e.g., 'on the surface' or 'in the sample'). | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 180 | Is sample devoid of an oil sheen? If "Failed", describe color and thickness (e.g. flecks, globs). | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 190 | Is sample free of other obvious indicators of pollution? If "Failed", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Labor Report

Completed: 6/28/2022 12:00:00 PM

Report: Marwin Shendo



Signature / Name

7/1/2022

Date

Signature / Name

Date

I confirm the information as recorded is true, accurate and complete.

CERTIFICATION STATEMENT

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information contained therein. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information contained is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations".

(Signatory must meet definition in Section B.11.A, eg. FOD, Ops Mgr, EPC Group or Team Leader)

Print name and title: Terrill W. Lemke, EPC-CP Storm Water Permitting/Compliance Team Leader

Signature: (See signature on file) Date: _____

NMR050013 MSGP 2021
TA-60 Asphalt Batch Plant

Quarterly Visual Assessment Form,
First Quarter, July through September 2022

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information contained therein. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information contained is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Terrill W. Lemke, EPC-CP Storm Water Permitting/Compliance Team
Leader

Los Alamos National Laboratory

TERRILL LEMKE Digitally signed by TERRILL
LEMKE (Affiliate)
Date: 2022.11.18 11:18:57
-0700
(Affiliate)

Manager Signature

| Facility Name | Sampling Station | Work Order # |
|---------------------------|------------------|--------------|
| TA-60 Asphalt Batch Plant | MSGP04301 | MSGP-66064 |
| TA-60 Asphalt Batch Plant | MSGP04301 | MSGP-66100 |

Maintenance Details

Requested: 7/5/2022 5:41:00 PM
Procedure: MSGP Quarterly Visual Assessment (EPC-CP-QP-2105 R1 Form 1)
Last PM: 7/5/2022
Project: Visual Assessments 7/1/22 (P-MSGP-5591)
Reason: MSGP Quarterly Visual Assessment

Target: 9/30/2022
Priority/Type: Normal / Inspection
Department: Utilities and Infrastructure

 MSGP Program
 RG200.5
 TA-60 Asphalt Batch Plant
 Monitored Outfall (043)
 **MSGP04301**

Contact:
Phone:

Tasks

| # | Description | Meas. | No | N/A | Yes |
|--|--|---------------------|-------------------------------------|--------------------------|-------------------------------------|
| The result of this VA applies to associated SIOs as defined in the SWPPP, where applicable. | | | | | |
| Sample information | | | | | |
| 30 | Document the monitoring period. | Jul-Sep | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 40 | Document the Date/Time Discharge began in the "Reading" field of this line (using mm/dd/yy hh:mm format). | 07/04/22 12:36 | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 50 | Document the Date/time sample collected in the "Reading" field of this line (using mm/dd/yy hh:mm format). | 07/04/22 12:36 | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 60 | Document the Date/time sample visually assessed in the "Reading" field of this line (using mm/dd/yy hh:mm format). | 07/05/22 13:00 | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 70 | Document the nature of discharge (e.g., rain, snowmelt). Document the TOTAL amount (in) in the "Reading" field of this line. | Rain Total 0.17" | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 80 | Sample collected in first 30 minutes of discharge? If "Failed" or unknown, provide a reason. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Parameters | | | | | |
| 110 | Is sample colorless? If "Failed", describe. Comments: Brown | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 120 | Is sample odorless? If "Failed", provide description (e.g. musty, sewage, sulfur, sour, solvent, petroleum/gas) | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 130 | Is sample clear? If "Failed", provide description (e.g., slightly cloudy, cloudy, opaque). Comments: slightly cloudy | | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 140 | Is sample free of floating solids? If "Failed", describe if raw or waste material(s) in the comments of this line. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 150 | Is sample free of settled solids? If "Failed", provide description (e.g., fine, coarse). | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 160 | Is sample free of suspended solids? If "Failed", provide description (e.g., fine, coarse). | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 170 | Is sample foamless after gently shaking? If "Failed" describe foam color and location (e.g., 'on the surface' or 'in the sample'). | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 180 | Is sample devoid of an oil sheen? If "Failed", describe color and thickness (e.g. flecks, globs). | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 190 | Is sample free of other obvious indicators of pollution? If "Failed", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Labor Report

Completed: 7/5/2022 1:00:00 PM

Report: Wayne Sanchez


Signature / Name

7/19/2022
Date

Signature / Name

Date

I confirm the information as recorded is true, accurate and complete.

CERTIFICATION STATEMENT

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information contained therein. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information contained is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations".

(Signatory must meet definition in Section B.11.A, eg. FOD, Ops Mgr, EPC Group or Team Leader)

Print name and title: Terrill W. Lemke, EPC-CP Storm Water Permitting/Compliance Team Leader

Signature: (See signature on file) Date: _____

Maintenance Details

Requested: 7/27/2022 2:54:00 PM
Procedure: MSGP Quarterly Visual Assessment (EPC-CP-QP-2105 R1 Form 1)
Last PM: 7/28/2022
Project: Visual Assessments 7/1/22 (P-MSGP-5591)
Reason: MSGP Quarterly Visual Assessment

Target: 9/30/2022
Priority/Type: / Inspection
Department: Utilities and Infrastructure

 MSGP Program
 RG200.5
 TA-60 Asphalt Batch Plant
 Monitored Outfall (043)
 **MSGP04301**

Contact:
Phone:

Tasks

| # | Description | Meas. | No | N/A | Yes |
|--|--|-----------------|-------------------------------------|--------------------------|-------------------------------------|
| The result of this VA applies to associated SIOs as defined in the SWPPP, where applicable. | | | | | |
| Sample information | | | | | |
| 30 | Document the monitoring period. | Jul-Sept | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 40 | Document the Date/Time Discharge began in the "Reading" field of this line (using mm/dd/yy hh:mm format). | 7/30/22 @ 12:38 | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 50 | Document the Date/time sample collected in the "Reading" field of this line (using mm/dd/yy hh:mm format). | 7/30/22 @ 12:38 | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 60 | Document the Date/time sample visually assessed in the "Reading" field of this line (using mm/dd/yy hh:mm format). | 8/1/22 @ 9:58 | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 70 | Document the nature of discharge (e.g., rain, snowmelt). Document the TOTAL amount (in) in the "Reading" field of this line. | Rain 1.56 | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 80 | Sample collected in first 30 minutes of discharge? If "Failed" or unknown, provide a reason. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Parameters | | | | | |
| 110 | Is sample colorless? If "Failed", describe. | Hint of brown | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 120 | Is sample odorless? If "Failed", provide description (e.g. musty, sewage, sulfur, sour, solvent, petroleum/gas) | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 130 | Is sample clear? If "Failed", provide description (e.g., slightly cloudy, cloudy, opaque). | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 140 | Is sample free of floating solids? If "Failed", describe if raw or waste material(s) in the comments of this line. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 150 | Is sample free of settled solids? If "Failed", provide description (e.g., fine, course). | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 160 | Is sample free of suspended solids? If "Failed", provide description (e.g., fine, course). | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 170 | Is sample foamless after gently shaking? If "Failed" describe foam color and location (e.g., 'on the surface' or 'in the sample'). | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 180 | Is sample devoid of an oil sheen? If "Failed", describe color and thickness (e.g. flecks, globs). | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 190 | Is sample free of other obvious indicators of pollution? If "Failed", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Labor Report

Completed: 8/1/2022 9:38:00 AM

Report: Marwin Shendo



Signature / Name

8/8/2022

Date

Signature / Name

Date

I confirm the information as recorded is true, accurate and complete.

CERTIFICATION STATEMENT

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information contained therein. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information contained is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations".

(Signatory must meet definition in Section B.11.A, eg. FOD, Ops Mgr, EPC Group or Team Leader)

Print name and title: Terrill W. Lemke, EPC-CP Storm Water Permitting/Compliance Team Leader

Signature: (See signature on file) Date: _____

NMR050013 MSGP 2021
TA-60 Asphalt Batch Plant

Quarterly Visual Assessment Form,
Fourth Quarter, April through June 2022

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information contained therein. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information contained is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Terrill W. Lemke, EPC-CP Storm Water Permitting/Compliance Team
Leader
Los Alamos National Laboratory

TERRILL LEMKE Digitally signed by TERRILL
LEMKE (Affiliate)
Date: 2022.11.18 11:14:40
-07'00'
(Affiliate)

Manager Signature

| Facility Name | Sampling Station | Work Order # |
|---------------------------|------------------|--------------|
| TA-60 Asphalt Batch Plant | MSGP04301 | MSGP-66016 |

Maintenance Details

Requested: 6/30/2022 10:10:00 AM
Procedure: MSGP Quarterly Visual Assessment (EPC-CP-QP-2105 R1 Form 1)
Last PM: 6/27/2022
Project: Visual Assessments 4/1/22 (P-MSGP-5585)

Target: 6/30/2022
Priority/Type: Normal / Inspection
Department: Utilities and Infrastructure

MSGP Program
 RG200.5
 TA-60 Asphalt Batch Plant
 Monitored Outfall (043)
MSGP04301

Reason: MSGP Quarterly Visual Assessment

Contact:
Phone:

Tasks

| # | Description | Meas. | No | N/A | Yes |
|--|--|------------------|-------------------------------------|--------------------------|-------------------------------------|
| The result of this VA applies to associated SIOs as defined in the SWPPP, where applicable. | | | | | |
| Sample information | | | | | |
| 30 | Document the monitoring period. | Apr-Jun | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 40 | Document the Date/Time Discharge began in the "Reading" field of this line (using mm/dd/yy hh:mm format). | 6/27/22 1:42 | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 50 | Document the Date/time sample collected in the "Reading" field of this line (using mm/dd/yy hh:mm format). | 6/27/22 1:42 | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 60 | Document the Date/time sample visually assessed in the "Reading" field of this line (using mm/dd/yy hh:mm format). | 6/27/22 10:16 | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 70 | Document the nature of discharge (e.g., rain, snowmelt). Document the TOTAL amount (in) in the "Reading" field of this line. | rain 1.34 | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 80 | Sample collected in first 30 minutes of discharge? If "Failed" or unknown, provide a reason. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Parameters | | | | | |
| 110 | Is sample colorless? If "Failed", describe. | brown | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 120 | Is sample odorless? If "Failed", provide description (e.g. musty, sewage, sulfur, sour, solvent, petroleum/gas) | musty | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 130 | Is sample clear? If "Failed", provide description (e.g., slightly cloudy, cloudy, opaque). | cloudy | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 140 | Is sample free of floating solids? If "Failed", describe if raw or waste material(s) in the comments of this line. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 150 | Is sample free of settled solids? If "Failed", provide description (e.g., fine, course). | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 160 | Is sample free of suspended solids? If "Failed", provide description (e.g., fine, course). | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 170 | Is sample foamless after gently shaking? If "Failed" describe foam color and location (e.g., 'on the surface' or 'in the sample'). | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 180 | Is sample devoid of an oil sheen? If "Failed", describe color and thickness (e.g. flecks, globs). | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 190 | Is sample free of other obvious indicators of pollution? If "Failed", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Labor Report

Completed: 6/27/2022 10:16:00 AM

Report: Marwin Shendo

7/1/2022

Signature / Name

Date

Signature / Name

Date

I confirm the information as recorded is true, accurate and complete.

CERTIFICATION STATEMENT

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information contained therein. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information contained is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations".

(Signatory must meet definition in Section B.11.A, eg. FOD, Ops Mgr, EPC Group or Team Leader)

Print name and title: Terrill W. Lemke, EPC-CP Storm Water Permitting/Compliance Team Leader

Signature: (See signature on file) Date: _____

NMR050013 MSGP 2021
TA-60 Roads and Grounds

Quarterly Visual Assessment Forms,
First Quarter, July through September 2021

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information contained therein. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information contained is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Terrill W. Lemke, EPC-CP Storm Water Permitting/Compliance Team
Leader

Los Alamos National Laboratory

TERRILL LEMKE Digitally signed by TERRILL
LEMKE (Affiliate)
(Affiliate) Date: 2021.10.27 10:44:33
-06'00'

Manager Signature

| Facility Name | Sampling Station | Work Order # |
|-------------------------|------------------|--------------|
| TA-60 Roads and Grounds | MSGP03201 | MSGP-65037 |
| TA-60 Roads and Ground | MSGP03101 | MSGP-65038 |
| TA-60 Roads and Ground | MSGP04201 | MSGP-65039 |
| TA-60 Roads and Ground | MSGP03301 | MSGP-65088 |
| TA-60 Roads and Ground | MSGP03401 | MSGP-65089 |
| TA-60 Roads and Ground | MSGP03501 | MSGP-65090 |
| TA-60 Roads and Ground | MSGP03001 | MSGP-65091 |

Maintenance Details

Requested: 7/28/2021 3:49:00 PM

Target: 9/30/2021

 MSGP Program

Procedure: MSGP Quarterly Visual Assessment (EPC-CP-QP-2105 R1 Form 1)

Priority/Type: / Inspection

 RG200.5

Department: Utilities and Infrastructure

 TA-60 Roads and Grounds

Last PM: 7/6/2021

 Monitored Outfall (032)

Project: Visual Assessments 7/1/21 (P-MSGP-5503)

 **MSGP03201**

Reason: MSGP Quarterly Visual Assessment

Contact:

Phone:

Tasks

| # | Description | Meas. | No | N/A | Yes |
|--|--|------------------|-------------------------------------|--------------------------|-------------------------------------|
| The result of this VA applies to associated SIOs as defined in the SWPPP, where applicable. | | | | | |
| Sample information | | | | | |
| 30 | Document the monitoring period. | jul-sept | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 40 | Document the Date/Time Discharge began in the "Reading" field of this line (using mm/dd/yy hh:mm format). | 7/23/21 1944 | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 50 | Document the Date/time sample collected in the "Reading" field of this line (using mm/dd/yy hh:mm format). | 7/23/21 1944 | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 60 | Document the Date/time sample visually assessed in the "Reading" field of this line (using mm/dd/yy hh:mm format). | 7/29/21 1553 | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 70 | Document the nature of discharge (e.g., rain, snowmelt). Document the TOTAL amount (in) in the "Reading" field of this line. | rain 0.1 inch | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 80 | Sample collected in first 30 minutes of discharge? If "Failed" or unknown, provide a reason. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Parameters | | | | | |
| 110 | Is sample colorless? If "Failed", describe. | brown | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 120 | Is sample odorless? If "Failed", provide description (e.g. musty, sewage, sulfur, sour, solvent, petroleum/gas) | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 130 | Is sample clear? If "Failed", provide description (e.g., slightly cloudy, cloudy, opaque). | opaque | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 140 | Is sample free of floating solids? If "Failed", describe if raw or waste material(s) in the comments of this line. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 150 | Is sample free of settled solids? If "Failed", provide description (e.g., fine, course). | fine | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 160 | Is sample free of suspended solids? If "Failed", provide description (e.g., fine, course). | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 170 | Is sample foamless after gently shaking? If "Failed" describe foam color and location (e.g., 'on the surface' or 'in the sample'). | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 180 | Is sample devoid of an oil sheen? If "Failed", describe color and thickness (e.g. flecks, globs). | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 190 | Is sample free of other obvious indicators of pollution? If "Failed", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Labor Report

Completed: 7/29/2021 3:53:00 PM

Report: Marwin Shendo



8/3/2021

Signature / Name

Date

Signature / Name

Date

I confirm the information as recorded is true, accurate and complete.

CERTIFICATION STATEMENT

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations".

(Signatory must meet definition in Section B.11.A, eg. FOD, Ops Mgr, EPC Group or Team Leader)

Print name and title: Terrill W. Lemke, EPC-CP Storm Water Permitting/Compliance Team Leader

Signature: (See signature on file) Date: _____

Maintenance Details

Requested: 7/28/2021 3:49:00 PM
Procedure: MSGP Quarterly Visual Assessment (EPC-CP-QP-2105 R1 Form 1)
Last PM: 7/6/2021
Project: Visual Assessments 7/1/21 (P-MSGP-5503)

Target: 9/30/2021
Priority/Type: / Inspection
Department: Utilities and Infrastructure

 MSGP Program
 RG200.5
 TA-60 Roads and Grounds
 Monitored Outfall (031)
 **MSGP03101**

Contact:
Phone:

Reason: MSGP Quarterly Visual Assessment

Tasks

| # | Description | Meas. | No | N/A | Yes |
|--|--|-------------------|-------------------------------------|--------------------------|-------------------------------------|
| The result of this VA applies to associated SIOs as defined in the SWPPP, where applicable. | | | | | |
| Sample information | | | | | |
| 30 | Document the monitoring period. | jul-sept | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 40 | Document the Date/Time Discharge began in the "Reading" field of this line (using mm/dd/yy hh:mm format). | 8/2/21 1925 | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 50 | Document the Date/time sample collected in the "Reading" field of this line (using mm/dd/yy hh:mm format). | 8/2/21 1925 | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 60 | Document the Date/time sample visually assessed in the "Reading" field of this line (using mm/dd/yy hh:mm format). | 8/3/21 1541 | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 70 | Document the nature of discharge (e.g., rain, snowmelt). Document the TOTAL amount (in) in the "Reading" field of this line. | rain 0.28 inch | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 80 | Sample collected in first 30 minutes of discharge? If "Failed" or unknown, provide a reason. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Parameters | | | | | |
| 110 | Is sample colorless? If "Failed", describe. | brown | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 120 | Is sample odorless? If "Failed", provide description (e.g. musty, sewage, sulfur, sour, solvent, petroleum/gas) | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 130 | Is sample clear? If "Failed", provide description (e.g., slightly cloudy, cloudy, opaque). | opaque | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 140 | Is sample free of floating solids? If "Failed", describe if raw or waste material(s) in the comments of this line. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 150 | Is sample free of settled solids? If "Failed", provide description (e.g., fine, course). | fine | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 160 | Is sample free of suspended solids? If "Failed", provide description (e.g., fine, course). | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 170 | Is sample foamless after gently shaking? If "Failed" describe foam color and location (e.g., 'on the surface' or 'in the sample'). | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 180 | Is sample devoid of an oil sheen? If "Failed", describe color and thickness (e.g. flecks, globs). | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 190 | Is sample free of other obvious indicators of pollution? If "Failed", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Labor Report

Completed: 8/3/2021 3:41:00 PM

Report: Marwin Shendo



8/9/2021

Signature / Name

Date

Signature / Name

Date

I confirm the information as recorded is true, accurate and complete.

CERTIFICATION STATEMENT

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations".

(Signatory must meet definition in Section B.11.A, eg. FOD, Ops Mgr, EPC Group or Team Leader)

Print name and title: Terrill W. Lemke, EPC-CP Storm Water Permitting/Compliance Team Leader

Signature: (See signature on file) Date: _____

Maintenance Details

Requested: 7/28/2021 3:48:00 PM

Target: 9/30/2021

 MSGP Program

Procedure: MSGP Quarterly Visual Assessment (EPC-CP-QP-2105 R1 Form 1)

Priority/Type: / Inspection

 RG200.5

Department: Utilities and Infrastructure

 TA-60 Roads and Grounds

Last PM: 7/6/2021

 Monitored Outfall (042)

Project: Visual Assessments 7/1/21 (P-MSGP-5503)

 **MSGP04201**

Reason: MSGP Quarterly Visual Assessment

Contact:

Phone:

Tasks

| # | Description | Meas. | No | N/A | Yes |
|--|--|-------------------|-------------------------------------|--------------------------|-------------------------------------|
| The result of this VA applies to associated SIOs as defined in the SWPPP, where applicable. | | | | | |
| Sample information | | | | | |
| 30 | Document the monitoring period. | jul-sept | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 40 | Document the Date/Time Discharge began in the "Reading" field of this line (using mm/dd/yy hh:mm format). | 8/4/21 1549 | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 50 | Document the Date/time sample collected in the "Reading" field of this line (using mm/dd/yy hh:mm format). | 8/4/21 1549 | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 60 | Document the Date/time sample visually assessed in the "Reading" field of this line (using mm/dd/yy hh:mm format). | 8/5/21 1501 | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 70 | Document the nature of discharge (e.g., rain, snowmelt). Document the TOTAL amount (in) in the "Reading" field of this line. | rain 0.34 inch | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 80 | Sample collected in first 30 minutes of discharge? If "Failed" or unknown, provide a reason. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Parameters | | | | | |
| 110 | Is sample colorless? If "Failed", describe. | brown | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 120 | Is sample odorless? If "Failed", provide description (e.g. musty, sewage, sulfur, sour, solvent, petroleum/gas) | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 130 | Is sample clear? If "Failed", provide description (e.g., slightly cloudy, cloudy, opaque). | opaque | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 140 | Is sample free of floating solids? If "Failed", describe if raw or waste material(s) in the comments of this line. | veg | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 150 | Is sample free of settled solids? If "Failed", provide description (e.g., fine, course). | fine | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 160 | Is sample free of suspended solids? If "Failed", provide description (e.g., fine, course). | veg | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 170 | Is sample foamless after gently shaking? If "Failed" describe foam color and location (e.g., 'on the surface' or 'in the sample'). | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 180 | Is sample devoid of an oil sheen? If "Failed", describe color and thickness (e.g. flecks, globs). | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 190 | Is sample free of other obvious indicators of pollution? If "Failed", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Labor Report

Completed: 8/5/2021 3:01:00 PM

Report: Marwin Shendo



8/9/2021

Signature / Name

Date

Signature / Name

Date

I confirm the information as recorded is true, accurate and complete.

CERTIFICATION STATEMENT

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations".

(Signatory must meet definition in Section B.11.A, eg. FOD, Ops Mgr, EPC Group or Team Leader)

Print name and title: Terrill W. Lemke, EPC-CP Storm Water Permitting/Compliance Team Leader

Signature: (See signature on file) Date: _____

Maintenance Details

Requested: 7/28/2021 3:46:00 PM
Procedure: MSGP Quarterly Visual Assessment (EPC-CP-QP-2105 R1 Form 1)
Last PM: 7/21/2021
Project: Visual Assessments 7/1/21 (P-MSGP-5503)

Target: 9/30/2021
Priority/Type: / Inspection
Department: Utilities and Infrastructure

MSGP Program
 RG200.5
 TA-60 Roads and Grounds
 Monitored Outfall (032)
 Substantially Identical Outfall (033)
MSGP03301

Reason: MSGP Quarterly Visual Assessment

Contact:
Phone:

Tasks

| # | Description | Meas. | No | N/A | Yes |
|--|--|-------------------|-------------------------------------|--------------------------|-------------------------------------|
| The result of this VA applies to associated SIOs as defined in the SWPPP, where applicable. | | | | | |
| Sample information | | | | | |
| 30 | Document the monitoring period. | Q1 | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 40 | Document the Date/Time Discharge began in the "Reading" field of this line (using mm/dd/yy hh:mm format). | 07//20/21 1550 | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 50 | Document the Date/time sample collected in the "Reading" field of this line (using mm/dd/yy hh:mm format). | 07/20/21 1550 | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 60 | Document the Date/time sample visually assessed in the "Reading" field of this line (using mm/dd/yy hh:mm format). | 07/21/21 1000 | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 70 | Document the nature of discharge (e.g., rain, snowmelt). Document the TOTAL amount (in) in the "Reading" field of this line. | rain .27" | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 80 | Sample collected in first 30 minutes of discharge? If "Failed" or unknown, provide a reason. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Parameters | | | | | |
| 110 | Is sample colorless? If "Failed", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 120 | Is sample odorless? If "Failed", provide description (e.g. musty, sewage, sulfur, sour, solvent, petroleum/gas) | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 130 | Is sample clear? If "Failed", provide description (e.g., slightly cloudy, cloudy, opaque). | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 140 | Is sample free of floating solids? If "Failed", describe if raw or waste material(s) in the comments of this line. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 150 | Is sample free of settled solids? If "Failed", provide description (e.g., fine, course). | course | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 160 | Is sample free of suspended solids? If "Failed", provide description (e.g., fine, course). | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 170 | Is sample foamless after gently shaking? If "Failed" describe foam color and location (e.g., 'on the surface' or 'in the sample'). | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 180 | Is sample devoid of an oil sheen? If "Failed", describe color and thickness (e.g. flecks, globs). | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 190 | Is sample free of other obvious indicators of pollution? If "Failed", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Labor Report

Completed: 7/21/2021 10:00:00 AM

Report: Brad Schilling

7/29/2021
Date

Signature / Name

Date

I confirm the information as recorded is true, accurate and complete.

CERTIFICATION STATEMENT

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations".

(Signatory must meet definition in Section B.11.A, eg. FOD, Ops Mgr, EPC Group or Team Leader)

Print name and title: Terrill W. Lemke, EPC-CP Storm Water Permitting/Compliance Team Leader

Signature: (See signature on file) Date: _____

Maintenance Details

Requested: 7/28/2021 3:45:00 PM
Procedure: MSGP Quarterly Visual Assessment (EPC-CP-QP-2105 R1 Form 1)
Last PM: 7/21/2021
Project: Visual Assessments 7/1/21 (P-MSGP-5503)

Target: 9/30/2021
Priority/Type: / Inspection
Department: Utilities and Infrastructure

MSGP Program
 RG200.5
 TA-60 Roads and Grounds
 Monitored Outfall (032)
 Substantially Identical Outfall (034)
MSGP03401

Reason: MSGP Quarterly Visual Assessment

Contact:
Phone:

Tasks

| # | Description | Meas. | No | N/A | Yes |
|--|--|------------------|-------------------------------------|--------------------------|-------------------------------------|
| The result of this VA applies to associated SIOs as defined in the SWPPP, where applicable. | | | | | |
| Sample information | | | | | |
| 30 | Document the monitoring period. | Q1 | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 40 | Document the Date/Time Discharge began in the "Reading" field of this line (using mm/dd/yy hh:mm format). | 07/20/21 1550 | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 50 | Document the Date/time sample collected in the "Reading" field of this line (using mm/dd/yy hh:mm format). | 07/20/21 1550 | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 60 | Document the Date/time sample visually assessed in the "Reading" field of this line (using mm/dd/yy hh:mm format). | 07/21/21 1010 | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 70 | Document the nature of discharge (e.g., rain, snowmelt). Document the TOTAL amount (in) in the "Reading" field of this line. | rain .27" | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 80 | Sample collected in first 30 minutes of discharge? If "Failed" or unknown, provide a reason. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Parameters | | | | | |
| 110 | Is sample colorless? If "Failed", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 120 | Is sample odorless? If "Failed", provide description (e.g. musty, sewage, sulfur, sour, solvent, petroleum/gas) | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 130 | Is sample clear? If "Failed", provide description (e.g., slightly cloudy, cloudy, opaque). | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 140 | Is sample free of floating solids? If "Failed", describe if raw or waste material(s) in the comments of this line. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 150 | Is sample free of settled solids? If "Failed", provide description (e.g., fine, course). | course | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 160 | Is sample free of suspended solids? If "Failed", provide description (e.g., fine, course). | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 170 | Is sample foamless after gently shaking? If "Failed" describe foam color and location (e.g., 'on the surface' or 'in the sample'). | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 180 | Is sample devoid of an oil sheen? If "Failed", describe color and thickness (e.g. flecks, globs). | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 190 | Is sample free of other obvious indicators of pollution? If "Failed", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Labor Report

Completed: 7/21/2021 10:10:00 AM

Report: Brad Schilling

 _____ 7/29/2021 _____
 Signature / Name Date Signature / Name Date
 I confirm the information as recorded is true, accurate and complete.

CERTIFICATION STATEMENT

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations".

(Signatory must meet definition in Section B.11.A, eg. FOD, Ops Mgr, EPC Group or Team Leader)

Print name and title: Terrill W. Lemke, EPC-CP Storm Water Permitting/Compliance Team Leader

Signature: (See signature on file) Date: _____

Maintenance Details

Requested: 7/28/2021 3:44:00 PM
Procedure: MSGP Quarterly Visual Assessment (EPC-CP-QP-2105 R1 Form 1)
Last PM: 7/29/2021
Project: Visual Assessments 7/1/21 (P-MSGP-5503)

Target: 9/30/2021
Priority/Type: / Inspection
Department: Utilities and Infrastructure

-  MSGP Program
-  RG200.5
-  TA-60 Roads and Grounds
-  Monitored Outfall (032)
-  Substantially Identical Outfall (035)
-  **MSGP03501**

Reason: MSGP Quarterly Visual Assessment

Contact:
Phone:

Tasks

| # | Description | Meas. | No | N/A | Yes |
|--|--|------------------|-------------------------------------|--------------------------|-------------------------------------|
| The result of this VA applies to associated SIOs as defined in the SWPPP, where applicable. | | | | | |
| Sample information | | | | | |
| 30 | Document the monitoring period. | Q1 | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 40 | Document the Date/Time Discharge began in the "Reading" field of this line (using mm/dd/yy hh:mm format). | 07/20/21 1550 | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 50 | Document the Date/time sample collected in the "Reading" field of this line (using mm/dd/yy hh:mm format). | 07/20/21 1550 | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 60 | Document the Date/time sample visually assessed in the "Reading" field of this line (using mm/dd/yy hh:mm format). | 07/21/21 1020 | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 70 | Document the nature of discharge (e.g., rain, snowmelt). Document the TOTAL amount (in) in the "Reading" field of this line. | rain .27" | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 80 | Sample collected in first 30 minutes of discharge? If "Failed" or unknown, provide a reason. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Parameters | | | | | |
| 110 | Is sample colorless? If "Failed", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 120 | Is sample odorless? If "Failed", provide description (e.g. musty, sewage, sulfur, sour, solvent, petroleum/gas) | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 130 | Is sample clear? If "Failed", provide description (e.g., slightly cloudy, cloudy, opaque). | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 140 | Is sample free of floating solids? If "Failed", describe if raw or waste material(s) in the comments of this line. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 150 | Is sample free of settled solids? If "Failed", provide description (e.g., fine, course). | course | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 160 | Is sample free of suspended solids? If "Failed", provide description (e.g., fine, course). | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 170 | Is sample foamless after gently shaking? If "Failed" describe foam color and location (e.g., 'on the surface' or 'in the sample'). | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 180 | Is sample devoid of an oil sheen? If "Failed", describe color and thickness (e.g. flecks, globs). | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 190 | Is sample free of other obvious indicators of pollution? If "Failed", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Labor Report

Completed: 7/21/2021 10:20:00 AM

Report: Brad Schilling



7/29/2021

Signature / Name

Date

Signature / Name

Date

I confirm the information as recorded is true, accurate and complete.

CERTIFICATION STATEMENT

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations".

(Signatory must meet definition in Section B.11.A, eg. FOD, Ops Mgr, EPC Group or Team Leader)

Print name and title: Terrill W. Lemke, EPC-CP Storm Water Permitting/Compliance Team Leader

Signature: (See signature on file) Date: _____

Maintenance Details

Requested: 7/28/2021 3:43:00 PM
Procedure: MSGP Quarterly Visual Assessment (EPC-CP-QP-2105 R1 Form 1)
Last PM: 7/21/2021
Project: Visual Assessments 7/1/21 (P-MSGP-5503)

Target: 9/30/2021
Priority/Type: / Inspection
Department: Utilities and Infrastructure

 MSGP Program
 RG200.5
 TA-60 Roads and Grounds
 Monitored Outfall (031)
 Substantially Identical Outfall (030)
 **MSGP03001**

Reason: MSGP Quarterly Visual Assessment

Contact:
Phone:

Tasks

| # | Description | Meas. | No | N/A | Yes |
|--|--|------------------|-------------------------------------|--------------------------|-------------------------------------|
| The result of this VA applies to associated SIOs as defined in the SWPPP, where applicable. | | | | | |
| Sample information | | | | | |
| 30 | Document the monitoring period. | Q1 | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 40 | Document the Date/Time Discharge began in the "Reading" field of this line (using mm/dd/yy hh:mm format). | 07/20/21 1550 | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 50 | Document the Date/time sample collected in the "Reading" field of this line (using mm/dd/yy hh:mm format). | 07/20/21 1550 | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 60 | Document the Date/time sample visually assessed in the "Reading" field of this line (using mm/dd/yy hh:mm format). | 07/21/21 1030 | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 70 | Document the nature of discharge (e.g., rain, snowmelt). Document the TOTAL amount (in) in the "Reading" field of this line. | rain .27" | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 80 | Sample collected in first 30 minutes of discharge? If "Failed" or unknown, provide a reason. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Parameters | | | | | |
| 110 | Is sample colorless? If "Failed", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 120 | Is sample odorless? If "Failed", provide description (e.g. musty, sewage, sulfur, sour, solvent, petroleum/gas) | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 130 | Is sample clear? If "Failed", provide description (e.g., slightly cloudy, cloudy, opaque). | slightly cloudy | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 140 | Is sample free of floating solids? If "Failed", describe if raw or waste material(s) in the comments of this line. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 150 | Is sample free of settled solids? If "Failed", provide description (e.g., fine, course). | fine | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 160 | Is sample free of suspended solids? If "Failed", provide description (e.g., fine, course). | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 170 | Is sample foamless after gently shaking? If "Failed" describe foam color and location (e.g., 'on the surface' or 'in the sample'). | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 180 | Is sample devoid of an oil sheen? If "Failed", describe color and thickness (e.g. flecks, globs). | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 190 | Is sample free of other obvious indicators of pollution? If "Failed", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Labor Report

Completed: 7/21/2021 10:30:00 AM

Report: Brad Schilling



Signature / Name

7/29/2021

Date

Signature / Name

Date

I confirm the information as recorded is true, accurate and complete.

CERTIFICATION STATEMENT

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations".

(Signatory must meet definition in Section B.11.A, eg. FOD, Ops Mgr, EPC Group or Team Leader)

Print name and title: Terrill W. Lemke, EPC-CP Storm Water Permitting/Compliance Team Leader

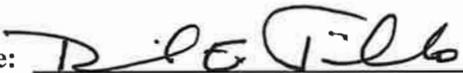
Signature: (See signature on file) Date: _____

ATTACHMENT 9: CORRECTIVE ACTION DOCUMENTATION AND CERTIFICATION

CERTIFICATION FOR CORRECTIVE ACTIONS

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information contained therein. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information contained is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Printed Name: DAVID E. TEJILLO Title: OPS - MGR 2

Signature:  Date: 1-11-2023

| CA# | FOD | Msgp Facility | Inspection Date | EPC Notify Date | Specific Location | Inspector Name | Identifying Name | Finding Description | Problem Description | AIM Level | Corrective Action Description | Corrective Action Initiate Date | Corrective Action Complete Date |
|------|-----|---------------------------|-----------------|-----------------|---|--------------------|--------------------|--|---|-----------|---|---------------------------------|---------------------------------|
| 2065 | UI | TA-60 Asphalt Batch Plant | 25-Jan-22 | 25-Jan-22 | West of the old asphalt batch plant on Sigma Mesa. | SANDOVAL LEONARD F | SANDOVAL LEONARD F | Unauthorized release or discharge | Small oil staining on base course from unknown source. | NA | Contaminated gravel/soil mix was excavated to a depth of 6 inches and containerized in a 30 gallon metal drum. | 25-Jan-22 | 25-Jan-22 |
| 2067 | UI | TA-60 Asphalt Batch Plant | 08-Feb-22 | 08-Feb-22 | Entrance to the TA-60 Clean Fill Yard on Sigma Mesa. | SANDOVAL LEONARD F | SANDOVAL LEONARD F | Other (describe) : | Tracking mud in and out of the clean fill yard on Sigma Mesa. | NA | The mud being tracking in and out of the clean fill yard needs to be swept with the street sweeper. | 08-Feb-22 | 08-Feb-22 |
| 2077 | UI | TA-60 Asphalt Batch Plant | 01-Mar-22 | 01-Mar-22 | Just to the North of the sediment retention pond on Sigma Mesa. | SANDOVAL LEONARD F | SANDOVAL LEONARD F | Other (describe) : | Five foot sections of rebar and big chunks/slabs of asphalt in a pile pulled out from underneath the soil during snow removal that need to be managed as metal for recycle or delivered to the LAC transfer station. | NA | Five foot sections of rebar and big chunks/slabs of asphalt in a pile pulled out from underneath the soil during snow removal that need to be managed as metal for recycle or delivered to the LAC transfer station. | 01-Mar-22 | 07-Mar-22 |
| 2115 | UI | TA-60 Asphalt Batch Plant | 27-Jun-22 | 27-Jun-22 | TA-60 Asphalt Batch Plant In front of the weir at outfall 043. | WHEELER HOLLY L | WHEELER HOLLY L | Control measures not properly operated or maintained | At the entrance to the weir at the TA-60 Asphalt Batch Plant, stormwater is going around the edges of the coir log rather than through it. Therefore, the coir log was ineffective at removing sediment prior to discharge. | NA | Evaluate use of additional stormwater control measures to remove sediment from stormwater prior to discharge from outfall 043. The current configuration of the coir log is not removing sediment because stormwater is diverting around it. The coir log across the opening to the flume that discharges to the MSGP sampler was replaced with a new one and second coir log was installed inside the flume to help capture and remove sediment from storm water that is diverted around the first coir log. | 29-Jun-22 | 29-Jun-22 |

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|------|----|---------------------------|-----------|-----------|--|--------------------|--------------------|--|---|----|--|-----------|-----------|
| 2139 | UI | TA-60 Asphalt Batch Plant | 29-Aug-22 | 29-Aug-22 | Outfall 043. | WHEELER HOLLY L | WHEELER HOLLY L | Numeric effluent limitation exceedance | The result for Total Suspended Solids (TSS) discharged from outfall 043 exceeds the daily maximum effluent limitation. The concentration of 70.3 mg/L discharged during the storm event on 06/27/2022 and the daily maximum limit is 23 mg/L. | NA | On 9/7/2022 there was a site walk down with EPC-CP, UI DEP, and LOG_HERG to discuss the placement of rock along the Northwest end of the retention pond at ground level to slow the concentrated sheet flow from the site draining into the pond. Also discussed and agreed on was the cleaning of the first half of the retention pond to remove accumulated sediment to help increase the holding capacity and retention time of storm water. Excavation permit 22X-0649 was submitted on 9/7/2022 in order to move forward with completing these corrective actions before 9/12/2022. On 9/9/2022 the accumulated sediment from the first half of the retention pond was removed down to tufa and angular rock was placed along the Northwest end of the retention pond to slow the concentrated sheet flow from the site draining into the pond. | 30-Aug-22 | 09-Sep-22 |
| 2156 | UI | TA-60 Asphalt Batch Plant | 02-Nov-22 | 02-Nov-22 | Within the construction site of the new asphalt batch plant at the far East end of Sigma Mesa. | SANDOVAL LEONARD F | SANDOVAL LEONARD F | Control measures inadequate to meet non-numeric effluent limitations | At the west end of the construction site for the new asphalt batch plant there's a trash only bin with plastic and trash on the ground that needs to be picked up. At the east end of the construction site among the staged heavy equipment there's a pile with some old T posts, some old metal signs, a section of broken metal cable, and some electrical wiring that needs to be put into a metal for recycle bin. | NA | At the west end of the construction site for the new asphalt batch plant there's a trash only bin with plastic and trash on the ground that needs to be picked up. At the east end of the construction site among the staged heavy equipment there's a pile with some old T posts, some old metal signs, a section of broken metal cable, and some electrical wiring that needs to be put into a metal for recycle bin. | 02-Nov-22 | 03-Nov-22 |
| 2204 | UI | TA-60 Asphalt Batch Plant | 20-Dec-22 | 20-Dec-22 | Eastern boundary and north central area by jersey barriers at the TA-60 Asphalt Batch Plant. | WHEELER HOLLY L | WHEELER HOLLY L | Control measures inadequate to meet non-numeric effluent limitations | Along the eastern boundary of the TA-60 Asphalt Batch Plant there is debris like wiring, a smashed traffic barrier, empty water bottles and pieces of ply wood that have become a housekeeping issue. North of the jersey barriers towards the center of the site, piping debris needs to be removed. | NA | Clean up the debris and trash. | 21-Dec-22 | 21-Dec-22 |

| CA# | FOD | Msgp Facility | Inspection Date | EPC Notify Date | Specific Location | Inspector Name | Finding Description | Problem Description | AIM Level | Corrective Action Description | SIDPs Affected | SIDP Action Taken | Corrective Action Complete Date |
|------|-----|-------------------------|-----------------|-----------------|--|--------------------|--|---|-----------|--|--------------------------|--|---------------------------------|
| 2066 | UI | TA-60 Roads and Grounds | 31-Jan-22 | 31-Jan-22 | Entrance to the heavy equipment staging area west of salt shed 60-0178. | SANDOVAL LEONARD F | Other (describe) : | Inside the entrance to the heavy equipment staging area west of salt shed 60-0178 there's a trash bin with | NA | The open lid on the trash bin needs to be closed and trash on the ground cleaned up. | | | 31-Jan-22 |
| 2059 | UI | TA-60 Roads and Grounds | 20-Dec-21 | 20-Dec-21 | At the asphalt staging area at TA-61. | WHEELER HOLLY L | Control measures not properly operated or maintained | At the TA-61 asphalt millings staging area associated with TA-60 Roads and Grounds, there were two millings piles with straw | NA | A berm was constructed on the west side of the access road that connects to the asphalt millings berm on the south. The berm runs north until the road starts increasing in elevation. | | | 20-Dec-21 |
| 2058 | UI | TA-60 Roads and Grounds | 20-Dec-21 | 20-Dec-21 | Along the berm north of TA-60 Roads and Grounds west and by the picnic table north of TA-60-250. | WHEELER HOLLY L | Control measures inadequate to meet non-numeric effluent limitations | North of the Jersey Barriers on the north side of TA-60 Roads and Grounds west, there were few pieces of trash. Around the picnic table north of TA-60- | NA | Housekeeping was performed to pick up the trash and cigarette buttes. | 033, 034 and 035 | Picking up trash and cigarette buttes should protect all outfalls. | 20-Dec-21 |
| 2057 | UI | TA-60 Roads and Grounds | 20-Dec-21 | 20-Dec-21 | North of the salt shed at TA-60 Roads and Grounds west where salt spreading trucks are parked. | WHEELER HOLLY L | Unauthorized release or discharge | North of the salt shed at TA-60 Roads and Grounds west, there are several | NA | The small oil stains under salt spreader trucks were sprayed with Micro-Blaze. | | | 20-Dec-21 |
| 2056 | UI | TA-60 Roads and Grounds | 20-Dec-21 | 20-Dec-21 | Potassium Acetate tanks north of the salt shed at TA-60 Roads and Grounds West. | WHEELER HOLLY L | Unauthorized release or discharge | At TA-60 Roads and Grounds west, there was potassium | NA | The valves at the base of both potassium acetate storage tanks were turned all the way to the closed position which stopped the leak. The affected | N/A | | 20-Dec-21 |
| 2051 | UI | TA-60 Roads and Grounds | 29-Nov-21 | 29-Nov-21 | Along the concrete jersey barriers on the North and South sides of TA-60 building 250 on Sigma Mesa. | SANDOVAL LEONARD F | Control measures inadequate to meet non-numeric effluent limitations | There's wind blown trash along the concrete jersey barriers on the North and South sides of TA-60 building 250 that | NA | There's wind blown trash along the concrete jersey barriers on the North and South sides of TA-60 building 250 that is a housekeeping issue. | SIDPs 033, 034, and 035. | There's wind blown trash along the concrete jersey barriers on the North and South sides of TA-60 building 250 that is a housekeeping issue. | 29-Nov-21 |
| 2050 | UI | TA-60 Roads and Grounds | 29-Nov-21 | 29-Nov-21 | Small heavy equipment staging area NW of Salt Shed 60-0178 on Sigma Mesa. | SANDOVAL LEONARD F | Control measures inadequate to meet non-numeric effluent limitations | Inside the small heavy equipment staging area NW of salt shed 60-0178 there's some rags, grease gun, and | NA | Inside the small heavy equipment staging area NW of salt shed 60-0178 there's some rags, grease gun, and two 1 gallon containers of anti-freeze that need to be picked up and put inside a storage shed. | | | 29-Nov-21 |

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|------|----|-------------------------|-----------|-----------|---|--------------------|--|---|----|--|--|--|-----------|
| 2049 | UI | TA-60 Roads and Grounds | 29-Nov-21 | 29-Nov-21 | Roll-up doors to Salt Shed 60-178 and entrance to transportainer 60-0287 on Sigma Mesa. | SANDOVAL LEONARD F | Control measures inadequate to meet non-numeric effluent limitations | In front of the roll-up doors to salt shed 60-178 and at the entrance to transportainer | NA | In front of the roll-up doors to salt shed 60-178 and at the entrance to transportainer 60-0287 there's road salt on the ground that needs to be swept up and put into the salt shed. | | | 29-Nov-21 |
| 2023 | UI | TA-60 Roads and Grounds | 19-Oct-21 | 19-Oct-21 | Left hand side of the paved road just past the clean fill yard at TA-60 Sigma Mesa. | SANDOVAL LEONARD F | Unauthorized release or discharge | At approximately 8:30 a.m. a John Deere 310 SE Turbo 4 X 4 backhoe with BC # 804058 leaked less than 1/2 a gallon of diesel fuel on asphalt from a fuel line on the left hand side of the paved | NA | The initial response was to place spill pads on the affected area on asphalt and was followed by using absorbent and spraying the affected area with micro-blaze as part of the final cleanup. | | | 19-Oct-21 |
| 2022 | UI | TA-60 Roads and Grounds | 19-Oct-21 | 19-Oct-21 | SE corner of the paved parking area North of the TA-60 Asphalt Batch Plant. | SANDOVAL LEONARD F | Control measures inadequate to meet non-numeric effluent limitations | There's a Porta John next to some trees that needs to be anchored with | NA | There's a Porta John next to some trees that needs to be anchored with rope and gravel bags so the wind doesn't blow it over. | | | 19-Oct-21 |
| 2015 | UI | TA-60 Roads and Grounds | 27-Sep-21 | 27-Sep-21 | Parking lot south of TA-60 building 250. | SANDOVAL LEONARD F | Control measures not properly operated or maintained | In the parking lot south of TA-60 building 250 there's an open trench with piles of base course on both side of the trench and a | NA | On 9/27/2021 straw wattles and gravel bags were placed along and around the piles of base course on both sides of the open trench and around the pile of sand to keep them in place in case of a storm event. | | | 27-Sep-21 |
| 2014 | UI | TA-60 Roads and Grounds | 27-Sep-21 | 27-Sep-21 | North side of TA-60 building 250 along the concrete jersey barriers. | SANDOVAL LEONARD F | Unauthorized release or discharge | On the north side of TA-60 building 250 along the concrete jersey barriers there's a fire hydrant with a hose used to fill the water | NA | The valve on the fire hydrant needs to be turned off on 9/27/2021 stopping the water. The gate valve on the hose is replaced with a new valve on 9/28/2021. | | | 27-Sep-21 |
| 2013 | UI | TA-60 Roads and Grounds | 27-Sep-21 | 27-Sep-21 | Base course area south of salt shed 60-0178. | SANDOVAL LEONARD F | Unauthorized release or discharge | In the base course area south of salt shed 60-0178 there's yellow series 77 trackless vehicle # 1920947 used for snow removal that has a hydraulic fluid leak. | NA | On 9/27/2021 the hydraulic lines that showed straining on them from the leak were wrapped with spill pads and the affected area on base course was covered with plastic until the trackless vehicle could be moved out of the way to begin the cleanup effort. On 9/28/2021 at 8:50 a.m. the trackless vehicle was loaded onto a flatbed truck and delivered to TA-60 HEY to fix the leak on the hydraulic lines. At 11:30 a.m. the affected area on base was cleaned up and containerized in two 30 gallon poly containers that will be managed as N.M Special Waste. | | | 27-Sep-21 |

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|------|----|-------------------------|-----------|-----------|--|--------------------|--|--|----|--|--|--|-----------|
| 2010 | UI | TA-60 Roads and Grounds | 20-Sep-21 | 20-Sep-21 | West of TA-60-0178 | KNIGHT JACOB L | Unauthorized release or discharge | Roads & Grounds is in D&D process of some large poly tanks previously used to store sugar beet extract with ~5% salt mixture for road surface treatment. The settled solids at the bottom were not removable by pump. The tank was cut | NA | On 9/20/2021 the spill was contained with gravel bag berms and the material remained in the general area on asphalt. The cleanup effort started on 9/20/2021 and consisted of adding sand to the semi-solid sugar beet and collecting it in 20 yard metal bins. The cleanup of the spilled sugar beet was completed on 9/21/2021 and resulted in two 20 yard bins of waste being generated. On 9/25/2021 the affected area on asphalt was swept completing the cleanup effort. | | | 20-Sep-21 |
| 1999 | UI | TA-60 Roads and Grounds | 19-Aug-21 | 19-Aug-21 | | KNIGHT JACOB L | Unauthorized release or discharge | A LANL pull-behind chipper (Morbark model 3036) that was parked at Roads and Grounds was being prepped for delivery to salvage. While using the | NA | Roads and Grounds responded to the spill and cleaned it up with absorbents and applied micro-blaze. The chipper was taken to heavy equipment for repair prior to salvaging. | | | 19-Aug-21 |
| 1997 | UI | TA-60 Roads and Grounds | 18-Aug-21 | 18-Aug-21 | Southeast corner of concrete jersey barriers next to transportainer 60-0338. | SANDOVAL LEONARD F | Control measures inadequate to meet non-numeric effluent limitations | At the SE corner of the concrete jersey barriers next to transportainer 60-0338 there's erosion from storm water runoff off of the south parking lot that needs to get fixed. | NA | At the SE corner of the concrete jersey barriers next to transportainer 60-0338 there's erosion from storm water runoff of the south parking lot that needs to be fixed. | | | 18-Aug-21 |
| 1996 | UI | TA-60 Roads and Grounds | 18-Aug-21 | 18-Aug-21 | Next to storage shed 60-0327. | SANDOVAL LEONARD F | Control measures inadequate to meet non-numeric effluent limitations | Next to storage shed 60-0327 there's a wood pallet with boxes of tubes of Quikrete Self- | NA | The boxes with tubes of Quikrete Self-Leveling Sealant need to be moved and stored inside a covered area. | | | 18-Aug-21 |

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|------|----|-------------------------|-----------|-----------|---|-----------------------|--|--|----|--|--|--|-----------|
| 1995 | UI | TA-60 Roads and Grounds | 18-Aug-21 | 18-Aug-21 | Entire length of concrete jersey barriers on the north and south side of TA-60 building 250. East of transportainer 60-0410 and next to storage shed 60-0327. | SANDOVAL LEONARD F | Control measures inadequate to meet non-numeric effluent limitations | There's wind blown trash along the entire length of the concrete jersey barriers north of 60-0250 into the treeline and concrete jersey barriers south of 60-0250 all the way to Eniwetok Rd. East of transportainer 60-0410 there's a | NA | The wind blown trash, empty cans of paint and 5 gallon bucket, wood pallets, plastic, pieces of metal, and big pieces of rubber need to be cleaned up and put into a trash or wood/metal for recycle bins. | | | 18-Aug-21 |
|------|----|-------------------------|-----------|-----------|---|-----------------------|--|--|----|--|--|--|-----------|

| CA# | FOD | Msgp Facility | Inspection Date | EPC Notify Date | Specific Location | Inspector Name | Identifying Name | Finding Description | Problem Description | AIM Level | Corrective Action Description | Corrective Action Initiate Date | Corrective Action Complete Date |
|------|-----|-------------------------|-----------------|-----------------|--|--------------------|--------------------|--|---|-----------|--|---------------------------------|---------------------------------|
| 2070 | UI | TA-60 Roads and Grounds | 15-Feb-22 | 15-Feb-22 | At the entrance to the potholing staging area on Sigma Mesa. | SANDOVAL LEONARD F | SANDOVAL LEONARD F | Other (describe) : | Mud being tracked in and out of the potholing staging area on Sigma Mesa. | NA | The mud being tracked in and out of the potholing staging area on Sigma Mesa needs to be swept off of the roadway with the street sweeper. | 15-Feb-22 | 16-Feb-22 |
| 2071 | UI | TA-60 Roads and Grounds | 15-Feb-22 | 15-Feb-22 | Paved staging area north of the old Asphalt Batch Plant on Sigma Mesa. | SANDOVAL LEONARD F | SANDOVAL LEONARD F | Other (describe) : | On the elevated metal stand with stairs from the old Asphalt Batch Plant there's five 5 gallon containers of Blow Kote and a hand sprayer that need to be moved into a storage shed. | NA | On the elevated metal stand with stairs from the old Asphalt Batch Plant there's five 5 gallon containers of Blow Kote and a hand sprayer that need to be moved into a storage shed. | 15-Feb-22 | 15-Feb-22 |
| 2072 | UI | TA-60 Roads and Grounds | 15-Feb-22 | 15-Feb-22 | Paved staging area north of the old Asphalt Batch plant on Sigma Mesa. | SANDOVAL LEONARD F | SANDOVAL LEONARD F | Unauthorized release or discharge | In the paved staging area north of the old asphalt batch plant on Sigma Mesa there's a yellow blade to push snow that leaked residual hydraulic fluid from the disconnect lines onto asphalt. | NA | The affected area on asphalt needs to be sprayed with micro-blaze and the disconnect lines to the snow blade need to be capped. | 15-Feb-22 | 15-Feb-22 |
| 2079 | UI | TA-60 Roads and Grounds | 16-Mar-22 | 16-Mar-22 | Next to 60-0287 Transportainer. | SANDOVAL LEONARD F | SANDOVAL LEONARD F | Other (describe) : | Wood pallet with bags of ice melt next to transportainer 60-0287 and several bags of ice melt on the ground next to the transportainer that need to be picked up and covered. | NA | The bags of ice melt on the ground next to transportainer 60-0287 need to be picked up and put on the wood pallet with the other bags of ice melt and covered with a tarp. | 16-Mar-22 | 21-Mar-22 |
| 2080 | UI | TA-60 Roads and Grounds | 16-Mar-22 | 16-Mar-22 | In front of the roll-up doors to salt shed 60-0178. | SANDOVAL LEONARD F | SANDOVAL LEONARD F | Unauthorized release or discharge | In front of the roll-up door on the West end of salt shed 60-0178 there's a small oil stain on asphalt that needs to be sprayed with micro-blaze. | NA | In front of the roll-up door on the West end of salt shed 60-0178 there's a small oil stain on asphalt that needs to be sprayed with micro-blaze. | 16-Mar-22 | 16-Mar-22 |
| 2092 | UI | TA-60 Roads and Grounds | 26-Apr-22 | 26-Apr-22 | Far East end of Sigma Mesa next to the elevated metal rack with stairs from the old Asphalt Batch Plant. | SANDOVAL LEONARD F | SANDOVAL LEONARD F | Control measures inadequate to meet non-numeric effluent limitations | Next to the elevated metal rack with stairs from the old Asphalt Batch Plant there's two empty 5 gallon containers of Blow-Kote and a 2 gallon hand sprayer that are a housekeeping issue. | NA | The two empty 5 gallon containers of Blow-Kote and 2 gallon hand sprayer need to be put into a trash bin. | 26-Apr-22 | 27-Apr-22 |

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|------|----|-------------------------|-----------|-----------|--|--------------------|--------------------|--|--|----|--|-----------|-----------|
| 2093 | UI | TA-60 Roads and Grounds | 26-Apr-22 | 26-Apr-22 | Trash only bin east of TA-60-0250 and the wooded area by the concrete jersey barriers north of TA-60-0250. | SANDOVAL LEONARD F | SANDOVAL LEONARD F | Control measures inadequate to meet non-numeric effluent limitations | In front of the trash only bin east of 60-0250 there's trash on the ground. In the wooded area by the concrete jersey barriers north of 60-0250 there's wind blown trash that includes Tyvek PPE, big pieces of plastic, card board boxes, and a sheet of plywood. Also next to a white box trailer by the concrete jersey barriers there's a bag of ice melt on the ground. | NA | The trash on the ground in front of the trash only bin and wind blown plastic, Tyvek PPE, and card board boxes need to be picked up and put into a trash bin. If there is no longer a use for the sheet of plywood, it needs to be put into a wood only bin and the bag of ice melt needs to be picked up and can be emptied inside the 60-0178 salt shed. | 26-Apr-22 | 27-Apr-22 |
| 2110 | UI | TA-60 Roads and Grounds | 27-Jun-22 | 27-Jun-22 | South parking lot of TA-60-0250 on the north side and next to transportainer 60-0287. | SANDOVAL LEONARD F | SANDOVAL LEONARD F | Control measures inadequate to meet non-numeric effluent limitations | On the north side of transportainer 60-0287 there's a pallet with 5 gallon buckets of hardened STO used for patch work. On the top row two 5 gallon buckets are missing lids that need to be replaced to keep them from collecting rain water. | NA | The two 5 gallon buckets with missing lids need to have them replaced to keep rain water from collecting in them. | 27-Jun-22 | 27-Jun-22 |
| 2111 | UI | TA-60 Roads and Grounds | 27-Jun-22 | 27-Jun-22 | South of salt shed 60-178. | SANDOVAL LEONARD F | SANDOVAL LEONARD F | Control measures inadequate to meet non-numeric effluent limitations | South of salt shed 60-0178 and parallel to Eniwetok Rd there's erosion on the side of the slope that needs to be repaired. | NA | South of salt shed 60-0178 and parallel to Eniwetok Rd the erosion on the side of the slope was repaired. The area will be monitored throughout the Monsoon season in case addition maintenance or repairs are needed. | 27-Jun-22 | 06-Jul-22 |

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|------|----|-------------------------|-----------|-----------|--|-----------------|-----------------|--|--|----|---|-----------|-----------|
| 2113 | UI | TA-60 Roads and Grounds | 27-Jun-22 | 27-Jun-22 | NE corner of the eastern clean fill yard at TA-60 Roads and Grounds east. | WHEELER HOLLY L | WHEELER HOLLY L | Control measures not properly operated or maintained | clean fill yard at TA-60 Roads and Grounds, stormwater was discharging over the top of the earthen berm to the north at two locations. The berm elevation needs to be assessed and drainage corrected so stormwater discharges out the weir at outfall 039 rather than over topping the berm. On 7-6-2022 the berm elevation was assessed by Daniel Romero of EPC-CP. On 7-6-2022 and 7-7-2022 a LOG-HERG heavy equipment operator moved clean fill material away from the existing berm to create at 15 to 20 foot open space/buffer. On 7-7-2022 EX-ID 22X-0552 Clean Fill Dirt Retention Area was submitted with SME comments due on 7-11-2022. On 7/14/2022 the MSGP sampler located along the berm north of the clean fill yard was removed from the site in order to begin work on the berm. On 7-19-2022 Daniel Romero of EPC-CP was onsite to re-measure the grade/height of the berm in advance of weekend work scheduled by on operator for 7-23-2022 to add | NA | Survey the elevation of the earthen berm to the north and northeast of the clean fill yard and correct the drainage so the weir at outfall 039 is the low point. The top of the berm is currently lower than the weir causing stormwater to over top it. EPC Engineer assisted in implementing a design to increase berm height, stabilize the berm with TRM, and install a new rip rap rundown to be the new permitted outfall. As of 8/5/22 Roads and grounds completed the work as detailed and a walk down was conducted with grades shot in to ensure low point at the rock rundown. EPC Engineer Daniel Romero will confirm grades and advise Roads & Grounds as necessary. On 8/8/2022 the site was walked again by Jacob Knight, DEP, because it had rained over the weekend and the berm and rundown appeared to function as intended. | 28-Jun-22 | 05-Aug-22 |
| 2116 | UI | TA-60 Roads and Grounds | 28-Jun-22 | 28-Jun-22 | TA-60 Roads and Grounds west at the NW corner not far from the sampling station for outfall 032. | WHEELER HOLLY L | WHEELER HOLLY L | Control measures not properly operated or maintained | There is a breach in the asphalt berm at the NW end of TA-60 Roads and Grounds west. Stormwater flowed around the coir log and cut through the asphalt berm to the north. | NA | The breach in the asphalt berm has been repaired. A coir log was also installed next to the concrete Jersey barrier and east of the existing coir log as a velocity dissipation control to slow down the discharge of stormwater. | 29-Jun-22 | 29-Jun-22 |
| 2117 | UI | TA-60 Roads and Grounds | 05-Jul-22 | 05-Jul-22 | TA-60 Roads and Grounds West by outfall 034 | WHEELER HOLLY L | WHEELER HOLLY L | Control measures not properly operated or maintained | At TA-60 Roads and Grounds West by outfall 034, the asphalt berm was breached. It also appears to be very close to being breached by outfall 035. This is likely due to ongoing rain for multiple days. | NA | Repair the breach near outfall 034 and inspect the entire length of the berm for other locations that may need maintenance. | 06-Jul-22 | 09-Jul-22 |

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|------|----|-------------------------|-----------|-----------|---|--------------------|--------------------|--|--|----|---|-----------|-----------|
| 2125 | UI | TA-60 Roads and Grounds | 25-Jul-22 | 25-Jul-22 | TA-60 Roads and Grounds West. | SANDOVAL LEONARD F | SANDOVAL LEONARD F | Control measures inadequate to meet non-numeric effluent limitations | Throughout the open space surrounding TA-60-0250 there are broken pieces of wood, wood pallets, sheets of windblown plastic, pieces of metal, PVC pipe, broken shovels, and plastic Gatorade and water bottles that are a housekeeping issue. | NA | The broken pieces of wood and wood pallets need to be picked up and put into a wood only bin. The pieces of metal need to be picked up and put into a metal for recycle bin. The windblown trash, PVC pipe, and broken shovels need to be picked up and put into a trash bin. | 25-Jul-22 | 30-Jul-22 |
| 2131 | UI | TA-60 Roads and Grounds | 11-Aug-22 | 11-Aug-22 | Staging area south of Salt Shed 60-0178. | SANDOVAL LEONARD F | SANDOVAL LEONARD F | Unauthorized release or discharge | EPC-CP was notified of an antifreeze release on the asphalt parking lot on the south side of Salt Shed 60-0178. Approximately 1/2 gallon of fluid was released from milling equipment operated by the subcontractor performing re-paving along Enewetok Drive. | NA | The subcontractor SAMES applied absorbent to mitigate the release and less than a gallon zip lock bag of absorbent was collected as waste. | 11-Aug-22 | 11-Aug-22 |
| 2136 | UI | TA-60 Roads and Grounds | 29-Aug-22 | 29-Aug-22 | The paved heavy equipment staging area North of the Asphalt Batch Plant. | SANDOVAL LEONARD F | SANDOVAL LEONARD F | Unauthorized release or discharge | One of the concrete washouts in the paved staging area North of the Asphalt Batch Plant is leaking water and the other concrete washout has dried concrete that spilled onto the asphalt in front of it. | NA | On 8/30/2022 the door on the concrete washout that was leaking was tightened and drip pans with gravel bags to keep them in place were used underneath the door to collect any additional water. On 9/2/2022 LOG-HERG was able to stop the leak and covered the concrete washout bin with plastic. The concrete washout bin was posted as Do Not Use and will remain onsite until Western Disposal has an available driver and replacement bin. Final clean up of the affected area from the leak and dried concrete was completed on 9/6/2022. | 29-Aug-22 | 06-Sep-22 |
| 2137 | UI | TA-60 Roads and Grounds | 29-Aug-22 | 29-Aug-22 | SAMES contractor temporary staging area South of Salt Shed 60-0178 on Sigma Mesa. | SANDOVAL LEONARD F | SANDOVAL LEONARD F | Control measures inadequate to meet non-numeric effluent limitations | In the temporary staging area being used by the SAMES contractor there's a wood only bin with wood and trash that is not covered. Also within the staging area there's a porta John that is not anchored to the ground. | NA | On 8/30/2022 the MRF picked up the Wood Only bin with trash and delivered it to the LAC transfer station for disposal. The porta John was also anchored to the ground. | 29-Aug-22 | 30-Aug-22 |
| 2138 | UI | TA-60 Roads and Grounds | 29-Aug-22 | 29-Aug-22 | Small heavy equipment staging area West of Salt Shed 60-0178. | SANDOVAL LEONARD F | SANDOVAL LEONARD F | Control measures inadequate to meet non-numeric effluent limitations | Inside the small heavy equipment staging area West of Salt Shed 60-0178 there's a trash bin with several torn bags of trash on the ground that appear to have been pulled out by a bear. | NA | On 8/30/2029 the torn bags of trash on the ground were picked up and put back into the trash bin. | 29-Aug-22 | 30-Aug-22 |

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|------|----|-------------------------|-----------|-----------|--|--------------------|--------------------|--|--|----|---|-----------|-----------|
| 2143 | UI | TA-60 Roads and Grounds | 13-Sep-22 | 13-Sep-22 | Asphalt parking area on Sigma Mesa north of the old Asphalt Batch Plant. | SANDOVAL LEONARD F | SANDOVAL LEONARD F | Unauthorized release or discharge | During an EPC-CP site walk-around a tank was discovered leaking commercial deicer (potassium acetate) onto the asphalt parking area on Sigma Mesa (north of asphalt batch plant location). Approximately 3 to 5 gallons is estimated to have leaked from the poly tank. | NA | Roads and Grounds personnel containerized the loose material (dirt and vegetative) and bagged approximately 20 lbs for proper disposal. A mechanic from Heavy Equipment was notified and repaired the fitting that was leaking. | 13-Sep-22 | 13-Sep-22 |
| 2147 | UI | TA-60 Roads and Grounds | 28-Sep-22 | 28-Sep-22 | North of 60-0178 Salt Shed at TA-60 Roads and Grounds. | SANDOVAL LEONARD F | SANDOVAL LEONARD F | Unauthorized release or discharge | At approximately 11:30 am this morning Sept 28, 2022 laborers were hooking up a water buffalo tank to their truck at the north end of 60-0178 Salt Shed when water buffalo fell off the receiver hitch . The jack off of the tank came off and broke a hose bib which caused the water buffalo to spill approximately 250 gallons of potable water. The potable water ran north onto asphalt down hill towards the MSGP sampler, but did not reach the concrete flume. | NA | Approximately half of the water buffalo water tank leaked or approximately 250 gallons of potable water. The water buffalo tank was delivered to TA-60 Heavy Equipment to repair the broken hose bib. | 28-Sep-22 | 28-Sep-22 |
| 2153 | UI | TA-60 Roads and Grounds | 20-Oct-22 | 20-Oct-22 | North side of transportainer 60-0287. | SANDOVAL LEONARD F | SANDOVAL LEONARD F | Control measures inadequate to meet non-numeric effluent limitations | On the north side of transportainer 60-0287 there's 7 wood pallets of ice melt that need to be covered with tarps. | NA | On the north side of transportainer 60-0287 there's 7 wood pallets of ice melt that need to be covered with tarps. | 20-Oct-22 | 21-Oct-22 |

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|------|----|-------------------------|-----------|-----------|---|-----------------|-----------------|--|---|----|---|-----------|-----------|
| 2157 | UI | TA-60 Roads and Grounds | 02-Nov-22 | 02-Nov-22 | Near the concrete washout bin storage area at TA-60 Roads and Grounds east. | WHEELER HOLLY L | WHEELER HOLLY L | Control measures inadequate to meet non-numeric effluent limitations | <p>There are housekeeping issues near the concrete washout bins at TA-60 Roads and Grounds East. Specifically, there are two dark stained areas that appear to be releases of an unknown substance (possibly oil). Some concrete washout was dumped outside of the bins. There is an unknown clear liquid stored in a tray on the north side of the western most washout bin that contains some chemical. It is not water as evidenced by odor. There are concrete fines surrounding the bins and they were not covered. The eastern most concrete washout bin contains a substance that does not smell like concrete washout. So there may be waste characterization and management issues with the material inside the washout bin and the liquid in the tray north of the bin. There is rain and snow in the forecast for the next couple of days, so action needs to be taken quickly. EPC-CP spills personnel were notified at about 4:00 pm on 11/2/2022.</p> | NA | <p>On the morning of 11/3/2022 some of the dried concrete on asphalt was cleaned up and drip pans/trays were placed underneath the leaking bin. Thicker tarps were used to cover and replace the thinner ones on the bins and Western Disposal was contacted to remove the leaking bin. On the morning of 11/7/2022 Western Disposal picked up the bin that was leaking. Additional housekeeping was performed on 11/9/2022 to pick up several torn gravel bags, broken pieces of wood, sweep and remove more dried up concrete and sediment, and to spray the affected area on asphalt again with micro-blaze.</p> | 03-Nov-22 | 09-Nov-22 |
|------|----|-------------------------|-----------|-----------|---|-----------------|-----------------|--|---|----|---|-----------|-----------|

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|------|----|-------------------------|-----------|-----------|---|--------------------|--------------------|--|--|----|---|-----------|-----------|
| 2165 | UI | TA-60 Roads and Grounds | 22-Nov-22 | 22-Nov-22 | EPC-CP responded to TA-60, across from the new asphalt plant, for a concrete washout spill. Approximately 25 gallons of water was spilled, onto asphalt, while Los Alamos Transit was washing their trucks at the concrete washout bin. The drivers of the LA Transit wash the concrete into the bin, but also wash the outside of their trucks onto the ground and into the surrounding soil. UI Personnel put down sand bags on the east side of bin, will wait for the water to dry, and sweep the area to clean up. | SANDOVAL LEONARD F | SANDOVAL LEONARD F | Unauthorized release or discharge | EPC-CP responded to TA-60, across from the new asphalt plant, for a concrete washout spill. Approximately 25 gallons of water was spilled, onto asphalt, while Los Alamos Transit was washing their trucks at the concrete washout bin. The drivers of the LA Transit wash the concrete into the bin but also wash the outside of their trucks onto the ground and into the surrounding soil. UI Personnel put down sand bags on the east side of bin, will wait for the water to dry, and sweep the area to clean up. | NA | EPC-CP responded to TA-60, across from the new asphalt plant, for a concrete washout spill. Approximately 25 gallons of water was spilled, onto asphalt, while Los Alamos Transit was washing their trucks at the concrete washout bin. The drivers of the LA Transit wash the concrete into the bin but also wash the outside of their trucks onto the ground and into the surrounding soil. UI Personnel put down sand bags on the east side of bin, will wait for the water to dry, and sweep the area to clean up. Final clean up and sweeping was completed on 11/29/2022. | 22-Nov-22 | 29-Nov-22 |
| 2171 | UI | TA-60 Roads and Grounds | 29-Nov-22 | 29-Nov-22 | Eniwetok Road between the entrance of the potholing staging area and entrance to the clean fill yard on Sigma Mesa. | SANDOVAL LEONARD F | SANDOVAL LEONARD F | Control measures inadequate to meet non-numeric effluent limitations | There's a front end loader operator taking base course out of the expansion zone to the clean fill yard to back fill the area around the new concrete footers at the asphalt batch plant and also loading soil from the clean fill yard into two belly dumps going down to the TA-51 Warehouse project and traveling back and forth is causing tracking of sediment on the paved roadway that needs to swept with the broom or street sweeper. | NA | There's a front end loader operator taking base course out of the expansion zone to the clean fill yard to back fill the area around the new concrete footers at the asphalt batch plant and also loading soil from the clean fill yard into two belly dumps going down to the TA-51 Warehouse project and traveling back and forth is causing tracking of sediment on the paved roadway that needs to swept with the broom or street sweeper. Sweeping to address the tracking was completed on 11/29/2022 and will be performed at the end of each day while soil from the clean fill yard is being delivered to the TA-51 Warehouse project. | 29-Nov-22 | 29-Nov-22 |

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|------|----|-------------------------|-----------|-----------|--|--------------------|--------------------|--|---|----|---|-----------|-----------|
| 2172 | UI | TA-60 Roads and Grounds | 29-Nov-22 | 29-Nov-22 | Rollup doors to Salt Shed 60-0178 and wood pallet northeast of TA-60 building 250. | SANDOVAL LEONARD F | SANDOVAL LEONARD F | Control measures inadequate to meet non-numeric effluent limitations | In front of the roll-up doors to salt shed 60-0178 and the paved area south of the salt shed there's road salt on the asphalt that needs to be swept back into the salt shed. On a wood pallet NE of TA-60 building 250 there's 16 bags of ice melt that need to be put on the wood pallets in front of transportainer 60-0287 and covered with a tarp. | NA | On 11/30/2022 in front of the roll-up doors to salt shed 60-0178 and the paved area south of the salt shed the road salt on the asphalt was swept back into the salt shed. On 11/29/2022 the 16 bags of ice melt on a wood pallet NE of TA-60 building 250 were put on the wood pallets in front of transportainer 60-0287 and covered with a tarp. | 29-Nov-22 | 30-Nov-22 |
| 2173 | UI | TA-60 Roads and Grounds | 29-Nov-22 | 29-Nov-22 | SAMES contractor staging area North of Salt Shed 60-0178. | SANDOVAL LEONARD F | SANDOVAL LEONARD F | Control measures inadequate to meet non-numeric effluent limitations | In the SAMES contractor staging area North of Salt Shed 60-0178 there's two buckets of dried paint and a pile of rags with dried paint that are a housekeeping issue. | NA | On 11/30/2022 in the SAMES contractor staging area North of Salt Shed 60-0178 the two buckets of dried paint and pile of rags with dried paint were picked up and disposed of properly. | 29-Nov-22 | 30-Nov-22 |
| 2174 | UI | TA-60 Roads and Grounds | 29-Nov-22 | 29-Nov-22 | Northeast corner of TA-60 building 250, East of shed 60-0327, and inside the small heavy equipment staging area West of Salt Shed 60-0178. | SANDOVAL LEONARD F | SANDOVAL LEONARD F | Control measures inadequate to meet non-numeric effluent limitations | At the NE corner of TA-60 building 0250, E of shed 60-0327, and inside the small heavy equipment staging area W of salt shed 60-0178 there's wood pallets that are a housekeeping issue and need to be picked up and put into a wood only bin. | NA | At the NE corner of TA-60 building 0250, E of shed 60-0327, and inside the small heavy equipment staging area W of salt shed 60-0178 there's wood pallets that are a housekeeping issue and need to be picked up and put into a wood only bin. On 11/29/2022 all of the wood pallets were picked up and delivered to the TA-60 Material Recycling Facility. | 29-Nov-22 | 29-Nov-22 |
| 2185 | UI | TA-60 Roads and Grounds | 10-Dec-22 | 10-Dec-22 | Paved parking area north of Enewetok Road and new Asphalt Batch plant construction site on Sigma Mesa. | SANDOVAL LEONARD F | SANDOVAL LEONARD F | Unauthorized release or discharge | EPC-CP was notified of a hydraulic spill at TA-60, north of the new asphalt plant. Approximately one pint of hydraulic oil spilled on asphalt from a trailer (Gov. E 01319 T) from a leaking component. | NA | The spill occurred over the weekend and the source was secured and fixed. Roads & Grounds used absorbents and EPC-CP applied Micro-blaze. | 10-Dec-22 | 10-Dec-22 |
| 2191 | UI | TA-60 Roads and Grounds | 16-Dec-22 | 16-Dec-22 | Small Heavy Equipment Staging area NW of Salt Shed 60-0178 on Sigma Mesa. | SANDOVAL LEONARD F | SANDOVAL LEONARD F | Unauthorized release or discharge | EPC-CP was notified this afternoon by Roads and Grounds personnel of a hydraulic fluid release NW of building 60-0250. Approximately one pint of hydraulic fluid was released onto soil from mulching equipment (attachments/disconnected hoses). | NA | The impacted soil was removed and containerized for proper disposal. Approximately 2 gallons of waste was generated. The hose was secured to prevent any further leakage. | 16-Dec-22 | 16-Dec-22 |

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|------|----|-------------------------|-----------|-----------|---|-----------------|-----------------|--|---|----|--|-----------|-----------|
| 2193 | UI | TA-60 Roads and Grounds | 19-Dec-22 | 19-Dec-22 | TA-61 Asphalt Millings Staging Area | WHEELER HOLLY L | WHEELER HOLLY L | Control measures not properly operated or maintained | At the TA-61 asphalt millings staging area, a portion of the asphalt berm (control number 6000303040062) had been run over by heavy trucks until it was no longer functional. The berm at the southeast corner of the site boundary needs to be rebuilt. | NA | The berm at the southeast corner of the site boundary needs to be rebuilt. | 20-Dec-22 | 20-Dec-22 |
| 2199 | UI | TA-60 Roads and Grounds | 19-Dec-22 | 19-Dec-22 | | WHEELER HOLLY L | WHEELER HOLLY L | Control measures inadequate to meet non-numeric effluent limitations | While a truck was filling up with salt, there was residual left on the asphalt south the the salt shed at TA-60 Roads and Grounds west. | NA | Sweep up the residual salt outside of the shed. | 20-Dec-22 | 20-Dec-22 |
| 2198 | UI | TA-60 Roads and Grounds | 19-Dec-22 | 19-Dec-22 | Eastern portion of the TA-50 Roads and Grounds east heavy equipment staging area. | WHEELER HOLLY L | WHEELER HOLLY L | Control measures inadequate to meet non-numeric effluent limitations | There is an open top poly tank that contains residual ice melting agent stored in the heavy equipment storage area. | NA | The open top poly tank was covered and wrapped with a tarp that was secured with rope to prevent precipitation from coming in contact with the tank contents. Pieces of plywood were placed across the top of the tank to keeping the tarp from sagging with the weight of precipitation. | 20-Dec-22 | 20-Dec-22 |
| 2197 | UI | TA-60 Roads and Grounds | 19-Dec-22 | 19-Dec-22 | North and east of the heavy equipment storage area at TA-60 Roads and Grounds west. | WHEELER HOLLY L | WHEELER HOLLY L | Control measures inadequate to meet non-numeric effluent limitations | North and east of the heavy equipment storage area at TA-60 Roads and Grounds west, there are damaged totes that need to be disposed of as they are not in good shape. In addition, there is a metal frame along the eastern fence to the storage area that looks like it may have been some type of portable canopy. It is in poor shape and needs to be disposed of. These are housekeeping issues. | NA | Dispose of damaged totes and metal frame with cover. | 20-Dec-22 | 20-Dec-22 |
| 2196 | UI | TA-60 Roads and Grounds | 19-Dec-22 | 19-Dec-22 | The east side of the heavy equipment storage area at TA-60 Roads and Grounds west. | WHEELER HOLLY L | WHEELER HOLLY L | Control measures inadequate to meet non-numeric effluent limitations | On the east side of TA-60 Roads and Grounds west, an open plastic 5 gallon bucket appears to have residue in the bottom and may have precipitation in it as there is liquid on top of the residue. | NA | Approximately 1 gallon of water was verified to have a PH between 6.5 and 7, no visible oily sheen, or odor. The water was added to a 275 gallon tote container with a mixture of water and brine collected from the clean up and draining of one of the old brine tanks. The 5 gallon bucket was relocated into one of the storage sheds. | 20-Dec-22 | 20-Dec-22 |

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|------|----|-------------------------|-----------|-----------|---|-----------------|-----------------|--|---|----|--|-----------|-----------|
| 2195 | UI | TA-60 Roads and Grounds | 19-Dec-22 | 19-Dec-22 | South along the jersey barriers at TA-60 Roads and Grounds west, along the jersey barriers on the north end of TA-60 Roads and Grounds west, and along the northern portion of the jersey barriers at TA-60 Roads and Grounds east. | WHEELER HOLLY L | WHEELER HOLLY L | Control measures inadequate to meet non-numeric effluent limitations | Trash is present along the southern jersey barriers at TA-60 Roads and Grounds west. Trash is also present along the north end of TA-60 Roads and Grounds east. In addition, there was a stack of small PVC pipe pieces with end caps abandoned along the northern jersey barriers of TA-60 Roads and Grounds west. | NA | Pick up the trash and remove PVC pipe pieces with end caps. | 20-Dec-22 | 20-Dec-22 |
| 2194 | UI | TA-60 Roads and Grounds | 19-Dec-22 | 19-Dec-22 | Northeast of the sediment basin at TA-60 Roads and Grounds west. | WHEELER HOLLY L | WHEELER HOLLY L | Control measures inadequate to meet non-numeric effluent limitations | Erosion is occurring to the NE of the sediment basin at TA-60 Roads and Grounds west. | NA | Regrade and compact the area that is eroded. | 20-Dec-22 | 20-Dec-22 |
| 2201 | UI | TA-60 Roads and Grounds | 19-Dec-22 | 19-Dec-22 | TA-60 Roads and Grounds east, entrance to potholing yard. | WHEELER HOLLY L | WHEELER HOLLY L | Control measures not properly operated or maintained | The rock (rip rap) used at the gate to the TA-60 Roads and Grounds east potholing yard is covered with mud and no longer useful for sediment control. | NA | Per the LANL Storm Water BMP Manual, rock entrances shall use 4-6 inch maximum size aggregate, require geo-textile fabrics to improve the stability of the pad foundation, rock shall be spread to a minimum thickness of 6 inches, and the minimum pad length shall be 50 feet. | 20-Dec-22 | 20-Dec-22 |
| 2200 | UI | TA-60 Roads and Grounds | 19-Dec-22 | 19-Dec-22 | TA-60 Roads and Grounds east on the east end of the clean fill yard. | WHEELER HOLLY L | WHEELER HOLLY L | Control measures not properly operated or maintained | Material in the processed material storage area at TA-60 Roads and Grounds east clean fill yard on the east side is over topping the berm. | NA | Re-establish a compacted earthen berm on the east side of the clean fill yard. | 20-Dec-22 | 20-Dec-22 |

ATTACHMENT 10: SCHEDULED MAINTENANCE LOG

SCHEDULED MAINTENANCE LOG : TA-60 Roads and Grounds/Asphalt Batch Plant

| Date | Control Measure or Equipment Description | Action Taken/Comments | Action Taken By |
|-----------|---|--|-----------------|
| 3/29/2021 | Monitored Outfalls 031, 032, 039, and 042. Substantially Identical Outfalls 033, 034, and 035 | MetalLoxx Wattles with Enviro-Soxx were replaced. | Jack Caldwell |
| 3/29/2021 | Monitored Outfalls 032. | Core logs at the edge of the pavement to help prevent sediment migration to monitoring location were replaced. | Jack Caldwell |
| 3/29/2021 | Monitored Outfalls 043. | Core log at the concrete flume was replaced. | Jack Caldwell |
| 9/17/2021 | Monitored Outfalls 031, 032, 039, and 042. Substantially Identical Outfalls 033, 034, and 035 | MetalLoxx Wattles with Enviro-Soxx were replaced. | Jack Caldwell |
| 9/17/2021 | Monitored Outfalls 032. | Core logs at the edge of the pavement to help prevent sediment migration to monitoring location were replaced. | Jack Caldwell |
| 9/17/2021 | Monitored Outfalls 043. | Core log at the concrete flume was replaced. | Jack Caldwell |
| 2/16/2022 | Monitored Outfalls 031, 032, 039, and 042. Substantially Identical Outfalls 033, 034, and 035 | MetalLoxx Wattles with Enviro-Soxx were replaced. | Jack Caldwell |
| 2/16/2022 | Monitored Outfalls 032. | Core logs at the edge of the pavement to help prevent sediment migration to monitoring location were replaced. | Jack Caldwell |
| 6/29/2022 | Monitored Outfalls 043. | Core log at the concrete flume was replaced. | Jack Caldwell |
| 9/27/2022 | Monitored Outfalls 031, 032, and 042. Substantially Identical Outfalls 033, 034, and 035 | MetalLoxx Wattles with Enviro-Soxx were replaced. | Cruz Armendariz |
| 9/27/2022 | Monitored Outfalls 032. | Core logs at the edge of the pavement to help prevent sediment migration to monitoring location were replaced. | Cruz Armendariz |
| 9/27/2022 | Monitored Outfalls 043. | Core log at the concrete flume was replaced. | Cruz Armendariz |

ATTACHMENT 11: TRAINING DOCUMENTATION

Information on employees receiving training is available upon request.



MSGP TRAINING FOR TA-60 Roads and Grounds Facility, Sigma Mesa Staging Areas, and Asphalt Batch Plant

**Presented by Leonard F. Sandoval
Deployed Environmental Professional**

November 2022

What is the MSGP?

- Multi-Sector General Permit - A nation-wide general permit
 - Applies to only those areas of the US where EPA is identified as the permitting authority (Like here in NM)
- Authorizes the discharge of stormwater from specific industrial activities to meet Clean Water Act Provisions
 - 60-0250 & 60-0233 Industrial activities include:
 - Land Transportation and Warehousing (Sector P)
 - Asphalt Paving, Roofing Material, & Lubricant Manufacturing (Sector D)
- EPA is the regulatory authority in New Mexico
 - NM Environment Department is delegated authority to conduct inspections

Purpose of the MSGP

- **Minimize** off-site migration of pollutants
 - Sediment is the #1 pollutant of waterbodies on the US
 - Stormwater runoff is a **major** factor in water quality
 - At LANL sediment, spills and trash are the major pollutants
 - Proactive approach will prevent reactive requirement to address conditions requiring corrective action



Pollutants



Stormwater Control Measures (SCMs) or Best Management Practices (BMPs)

- Select, design, install and implement SCMs to meet:
 - Non-numeric technology-based effluent limits, including:
 - Minimizing exposure of manufacturing, processing, and material storage areas to rain, snow, snowmelt, and stormwater
 - Good housekeeping
 - Maintenance
 - Spill prevention and response
 - Erosion and sediment control
 - Managing salt piles
 - Divert, infiltrate, reuse, contain, or otherwise reduce stormwater
 - Training employees
 - Ensuring unallowable non-stormwater discharges are prevented
 - Minimizing dust generation and vehicle tracking

Stormwater Pollution Prevention Plan (SWPPP)

- Facility-specific plan on how permit requirements will be met
- All personnel implementing the MSGP must be trained to it
- Identifies potential pollutant sources
- Describes stormwater controls used to reduce/eliminate pollutants in discharge
- Identifies the Pollution Prevention Team
- Contains procedures used to comply with terms/conditions of the MSGP

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MSGP Stormwater Pollution Prevention Plan

TA-60 Roads and Grounds Facility, Sigma Mesa Staging Areas,
and Asphalt Batch Plant

Triad National Security, LLC

Los Alamos National Laboratory

May 2021

Revision 3

When Do I Perform A Routine Facility Inspection (RFI)?

- Monthly
- At least once a calendar year during a stormwater discharge

Evaluation includes:

- Weather at time of inspection
- Discharges or evidence of discharges from the site
 - New discharges?
 - Evidence of, or potential for pollutants to enter the drainage system?
- Monitored outfalls and Substantially Identical Discharge Points (SIDPs)
 - Evidence of erosion?
 - Evidence of pollutants in discharge like trash?
 - Flow dissipation devices operating effectively and **most importantly** are installed correctly?



Los Alamos National Laboratory
Storm Water BMP Manual



Straw Wattles as an Example

- One of the most used Stormwater Control Measures or Best Management Practices
- Also the most common SCM or BMP that are installed incorrectly
- Need to anchor them to the ground surface in order to be effective



What Does An RFI Cover? (continued)

- Stormwater Control Measures
 - Are they operating effectively?
 - Are they in need of maintenance, repair, replacement?
- Examples



💧 Stormwater Control Measures (SCM)

- Examples – corrective action needed



Corrective Action (CA)

Definition: Any action taken, or required to be taken, to

- (1) repair, modify, or replace any stormwater control used at the site;
- (2) clean up and dispose of spills, releases, or other deposits found on the site;
- (3) satisfy any permit condition or SWPPP requirement

Conditions Requiring Corrective Action

- Unauthorized release or discharge
- Control measures are not stringent enough for discharge to meet applicable water quality standards or non-numeric effluent limits
- The average of four quarterly monitoring results exceeds an applicable benchmark
 - Additional Implementation Measure (AIM) triggering event
- Control measures are not being properly operated and maintained
- Whenever a visual assessment shows evidence of stormwater pollution
- Facility operations change resulting in an increase in the quantities of pollutants discharged

Corrective Action Time Frames

- 2 time-frames identified in the MSGP: Immediate & Subsequent
- Immediate action means right away (same day) once a CA is identified
- What constitutes immediate action?
 - Fixing the problem
 - Installation of temporary controls (gravel bags, covering, initial clean-up)
 - Some type of physical action to address or stabilize the situation
 - *Just telling someone about it or sending an email does not count!*
- For minor conditions, immediate action is often sufficient, and no additional action is necessary

Subsequent Corrective Action

- Complete the corrective action (e.g., install a new or modified control and make it operational or complete the repair) before the next storm event or within 14 calendar days from the time of discovery
- Roads and grounds may get involved (standing work order) to initiate a follow up action or permanent solution after the immediate action is completed (e.g., procurement and installation of a new SCM, maintenance/replacement of SCMs)
- Any corrective action resulting in a change to a SCM or procedure documented in the SWPPP will require SWPPP modification within 14 days of completing the corrective action
 - Contact your DEP (Leonard F. Sandoval) when corrective actions are completed so I can close out the open corrective action (emails go out on these in the form of an automatic notification from the MSGP tracking database).

Corrective Action Documentation

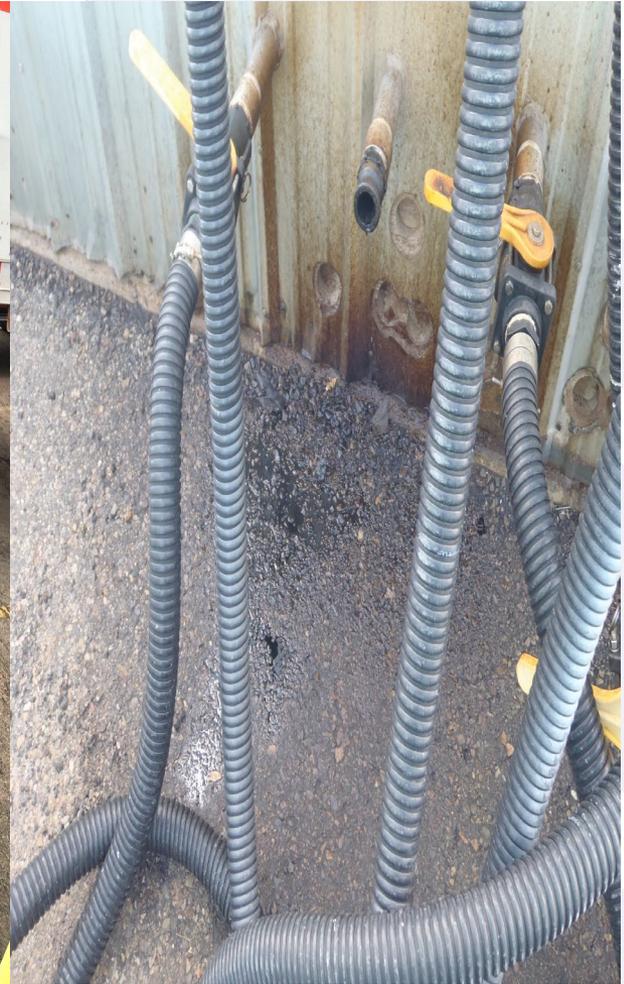
- Within 24 hours of discovery enter a description of the condition requiring corrective action and the date the condition was identified in the Corrective Action Report (CAR) database (DEP responsibility).
- Document immediate actions taken to minimize or prevent the discharge of pollutants
- Document dates when each corrective action was initiated, completed, or is expected to be completed
- If the corrective action cannot be completed within 14-days, provide a schedule and justification for why it is not feasible to complete the necessary work.

Things to look for – be proactive

- Pick-up wind-blown trash when observed on-site
- Check trucks, loaders, and other heavy equipment for leaks prior to using them
- Check for water leaks on the water trucks before parking them overnight
- Ensure all trash bin lids remain closed
- Check for road salt in front of the roll-up doors to the salt shed 60-0178
- Make sure the pallets of ice melt are covered with tarps
- Don't overfill metal/mixed recycle or wood only bins and keep them fully covered
- If in doubt, call your DEP Leonard F. Sandoval (505) 231-1235



Unplanned Releases/Spills



Unplanned Releases/Spills

- Immediately notify EPC-CP of all unplanned releases to ensure appropriate corrective actions are taken and notifications are made. Anything that looks like a spill is a spill (big or small) and must be reported.
- EPC-CP Spills Pager – (664-7722) Steve Pearson and David Forster.
- Contact EOOSC – (667-2400) if the unplanned release is an emergency.
- TRIAD must notify NMED within 24 hours of every “Reportable” spill and follow up with written reports within seven and fifteen days.
- TRIAD must immediately notify the National Response Center of any release of a Hazardous Substance that equals or exceeds a Reportable Quantity.
- **KNOW WHERE YOUR SPILL KITS ARE**

Questions?



ATTACHMENT 12: MSGP (OR ACTIVE URL)

A copy of the 2021 MSGP is kept on file with the SWPPP in hard copy.

The active URL for the permit is <https://www.epa.gov/npdes/stormwater-discharges-industrial-activities-epas-2021-msgp>

ATTACHMENT 13: THREATENED AND ENDANGERED SPECIES HABITAT MANAGEMENT PLAN FOR LOS ALAMOS NATIONAL LABORATORY

LA-UR-22-20556

Approved for public release; distribution is unlimited.

Title: Threatened and Endangered Species Habitat Management Plan for Los Alamos National Laboratory

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LA-UR-22-20556
January 2022
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Threatened and Endangered Species Habitat Management Plan for Los Alamos National Laboratory



Prepared for: U.S. Department of Energy/National Nuclear Security Administration,
Los Alamos Field Office

Prepared by: Environmental Protection and Compliance Division
Resources Management Team
Los Alamos National Laboratory
An Affirmative Action/Equal Opportunity Employer

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Cover photo: Mexican Spotted Owls at Los Alamos National Laboratory



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I. THREATENED AND ENDANGERED SPECIES HABITAT MANAGEMENT PLAN GENERAL OVERVIEW

1.0 Introduction

The Los Alamos National Laboratory (LANL) Threatened and Endangered Species Habitat Management Plan (HMP) fulfills a commitment made to the U.S. Department of Energy (DOE) in the “Final Environmental Impact Statement for the Dual-Axis Radiographic Hydrodynamic Test Facility Mitigation Action Plan” (DOE 1996). The HMP received concurrence from the U.S. Fish and Wildlife Service (USFWS) in 1999 (USFWS consultation numbers 2-22-98-I-336 and 2-22-95-I-108). This 2022 update retains the management guidelines from the 1999 HMP for listed species and updates some descriptive information.

2.0 Role of Site Plans in the HMP

The purpose of the HMP is to provide a management strategy for Endangered Species Act (ESA) compliance through the protection of threatened and endangered species and their habitats on LANL property. The HMP consists of site plans for federally listed threatened or endangered species that have a moderate or high probability of occurring at LANL. The following federally listed threatened or endangered species currently have site plans at LANL: Mexican Spotted Owl (*Strix occidentalis lucida*), Southwestern Willow Flycatcher (*Empidonax traillii extimus*), and Jemez Mountains Salamander (*Plethodon neomexicanus*). Site plans provide guidance to ensure that LANL operations do not adversely affect threatened or endangered species or their habitats.

The Black-footed Ferret (*Mustela nigripes*) is federally listed as endangered; however, no sightings of Black-footed Ferrets have been reported in Los Alamos County for more than 70 years. In addition, no large prairie dog towns—prime habitat for Black-footed Ferrets—have been observed at LANL; therefore, there is no site plan for this species.

The New Mexico Meadow Jumping Mouse (*Zapus hudsonius luteus*) and western distinct population segment of the Yellow-billed Cuckoo (*Coccyzus americanus*) do not require a site plan because they do not have breeding habitat on LANL property. In Keller (2015), it was concluded that if any LANL work activities—onsite or offsite—might affect habitat for these two species, those activities would be reviewed for impacts.

3.0 Description of Areas of Environmental Interest

Suitable habitats for federally listed threatened and endangered species have been designated as areas of environmental interest (AEIs), which are geographical units at LANL that are managed for the protection of federally listed species and consist of core habitat areas and buffer areas. The purpose of the core habitat is to protect areas essential for the existence of the specific threatened or endangered species. This includes the appropriate habitat type for breeding, prey availability, and micro-climate conditions. The purpose of buffer areas is to protect core areas from undue disturbance and habitat degradation.

Site plans identify restrictions on activities within the AEIs. The USFWS reviewed allowable activities and provided concurrence that these activities are not likely to adversely affect federally listed species.

Activities discussed in site plans include day-to-day activities that cause disturbance (hereafter referred to as “disturbance activities”), such as access into an AEI, and long-term impacts, such as habitat alteration.

3.1 Definition and Role of Developed Areas in AEI Management

Developed areas include all building structures, paved roads, improved gravel roads, paved and unpaved parking lots, and firing sites. The extent of developed areas in each AEI was determined using two methods. First, LANL geographic information system (GIS) analysts placed a 15-meter (m; 49-foot [ft]) border around all buildings and parking lots. For paved and improved gravel roads, the developed area was defined as the area to a roadside fence if one exists within 9 m (30 ft) of the road or 5 m (15 ft) on each side of the road if there is no fence within 9 m (30 ft). If an area of highly fragmented habitat was enclosed by roads, a security fence, or connected buildings, that area was also classified as developed. Developed areas at firing sites were defined as a circle with a 91-m (300-ft) radius from the most centrally located firing pad. Second, LANL GIS analysts overlaid scanned orthophotos onto a map of the Los Alamos area and digitized all areas that appeared developed. These two information sources were overlaid and combined so that areas classified as developed by either method were considered developed in final maps and analyses. Some areas were confirmed by ground surveys.

Developed areas occur in the core and/or buffer of all AEIs; however, developed areas do not constitute suitable habitat for federally listed species. Current ongoing activities in developed areas constitute a baseline condition for the AEIs and are not restricted. New activities, including further development within already existing developed areas, are not restricted unless they impact undeveloped portions of an AEI core. For example, if light or noise from a new office building in a developed area were to raise levels in an undeveloped core area, those light and noise levels would be subject to the guidelines on disturbance or habitat alterations.

3.2 General Description of Buffer Areas and Allowable Buffer Area Development

The purpose of buffer areas is to protect core areas from undue disturbance or habitat degradation. The 1999 levels of development in buffer and core areas represent baseline conditions for this HMP. No further development is allowed in the core area under the guidelines of this HMP. A limited amount of development may be allowed in buffer areas. Each species’ site plan details the allowable levels. Under the guidelines of this HMP, individual development projects are limited to 2 hectares (ha; 5 acre [ac]) in size, including a 15-m (49-ft) developed-area border around structures and a 5-m (15-ft) developed-area border around paved and improved gravel roads. Projects greater than 2 ha (5 ac) in size require individual review for ESA compliance (see exceptions for fuels management activities and utility corridor maintenance).

3.3 Emergency Actions

Managers may activate emergency actions if safety and/or property is immediately threatened by something occurring within an AEI (e.g., wildfire, water line breakage). Contact a LANL biologist (<https://int.lanl.gov/environment/bio/index.shtml>), the Environmental Stewardship Group (505-665-8855), or the DOE/National Nuclear Security Administration (NNSA) Los Alamos Field Office (505-667-7014) as soon as possible. If the emergency occurs outside of regular business hours, contact the Emergency Operations Support Center (505-667-2400); this office will then communicate with the appropriate LANL and DOE/NNSA Field Office personnel.

4.0 Implementation of Site Plans

4.1 Roles and Responsibilities

LANL's facility managers and operational staff are responsible for ensuring that activities are reviewed for compliance with all applicable site plans. Figure I-1 illustrates the process for utilizing site plans. If activities follow approved Site Plan guidelines, there is no requirement for additional ESA regulatory compliance; however, if proposed activities fall outside of the requirements of the Site Plan(s), then the project must fund a biological assessment for their activity.

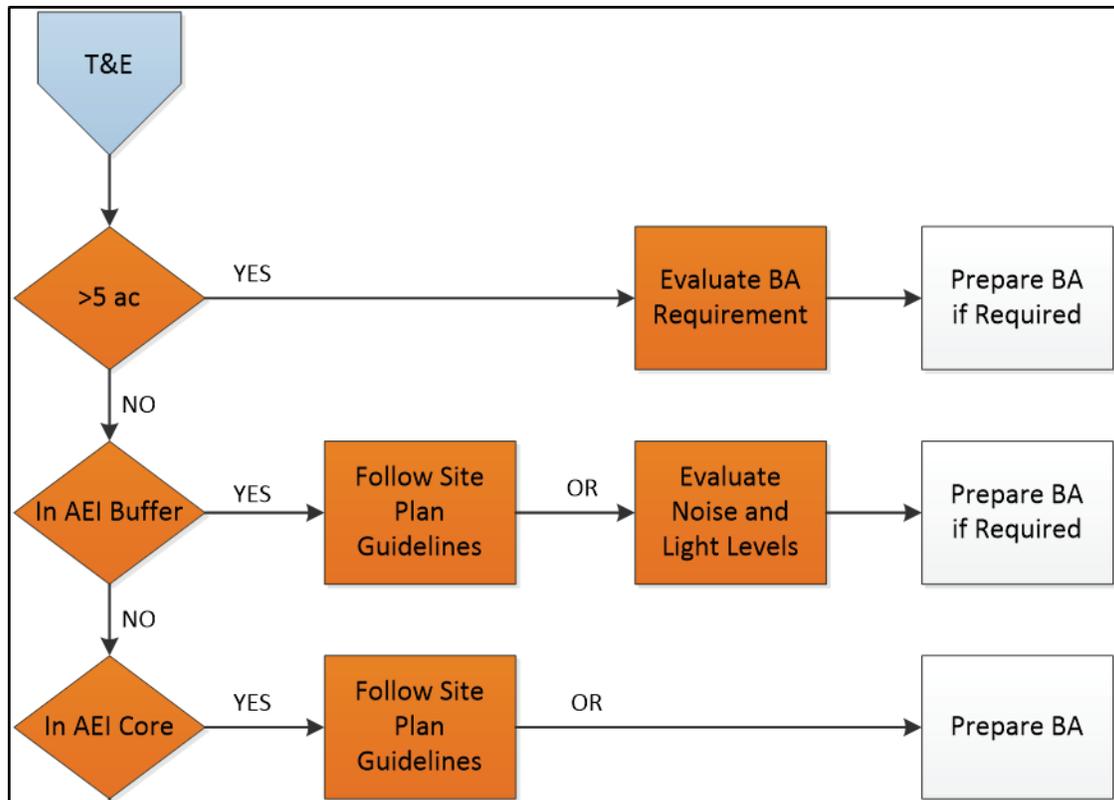


Figure I-1. Process flowchart for determining site plan requirements

If an activity or project occurs outside of all LANL AEIs and will not impact habitat within an AEI, it does not have to be reviewed for ESA compliance unless it is a large project in an undeveloped area that could have impacts on nearby habitat. Projects that are larger than 2 ha (5 ac) or cost more than \$5 million require an individual ESA compliance review even if they are not located within an AEI.

LANL's facility managers are responsible for determining if operations within their geographic and/or programmatic areas of responsibility comply with the guidelines in these site plans. Submission of a project into the integrated review tool for a new or modified project is required under *Environmental Management System*, System Description (SD) 400 (LANL 2021) and allows managers to identify the requirements within their project areas. Deployed environmental professionals and core LANL biologists are available to support facility managers. If activities follow site plan guidelines, they do not require any additional ESA regulatory compliance action; however, NEPA, cultural resources, wetlands, or other

regulatory compliance actions are not addressed in site plans, and additional compliance actions may be required for these actions. It is the responsibility of the project leader or facility management staff to ensure that all requirements are satisfied. If you have questions, contact biological, cultural, NEPA, or other environmental subject matter experts.

A single facility may have one or more AEIs within its boundary, and the AEIs may be for different species. Some AEIs overlap. In areas where overlap occurs, project managers must follow the guidelines for AEIs of all involved species.

4.2 *Activities that Do Not Meet Site Plan Guidelines*

If a project reviewer determines that an activity or project cannot meet the guidelines in applicable site plans, LANL biologists evaluate that activity individually for compliance with the ESA. Results of the evaluation of potential impacts allow LANL biologists to make recommendations to the DOE/NNSA Field Office Biological Resources Program Manager regarding the need for USFWS consultation. An evaluation may result in a DOE/NNSA Field Office

- determination that there is no effect and the activity may proceed,
- suggestion for modifications of the action to avoid adverse effects so that it may proceed, or
- decision to prepare a biological assessment for the activity and submit it to the USFWS for concurrence.

Fieldwork and preparation of a biological assessment can take several months, with an additional 2 to 12 months for DOE/NNSA Field Office review and then final USFWS concurrence.

4.3 *Dissemination of Information*

Habitat locations of threatened and endangered species are not considered sensitive; however, it is in the best interest of threatened and endangered species to restrict specific knowledge about their locations.

5.0 *Changes in the HMP since Implementation*

The HMP received concurrence from USFWS and was first implemented in 1999. Since that time, both the Peregrine Falcon (*Falco peregrinus*) and the Bald Eagle (*Haliaeetus leucocephalus*) have been delisted. Site plans for those species have been removed from LANL's HMP. Both species are protected at LANL under the Migratory Bird Treaty Act, and the Bald Eagle is also protected under the Bald and Golden Eagle Protection Act.

In 2005, the USFWS concurred with DOE's proposal for updated Mexican Spotted Owl habitat boundaries based on a revised analysis of Mexican Spotted Owl habitat quality within DOE property around LANL (USFWS consultation number 22420-2006-I-0010).

In 2012, the USFWS concurred with DOE's proposal to modify the habitat boundaries for the Los Alamos Canyon Mexican Spotted Owl AEI due to changes from the fire response activities after the Las Conchas wildfire (USFWS consultation number 02ENNM00-2012-IE-0088).

In 2013, the USFWS concurred with the DOE's new site plan for the Jemez Mountains Salamander and its addition to LANL's HMP (USFWS consultation number 02ENNM00-2014-I-0014).

In 2015, the USFWS concurred with the DOE's addition of the New Mexico Meadow Jumping Mouse and Yellow-billed Cuckoo to LANL's HMP (USFWS consultation number 02ENNM00-2015-I-0538).

In 2017, the USFWS concurred with DOE's proposal to modify the habitat boundaries for the lower section of Water Canyon Mexican Spotted Owl AEI due to habitat degradation that resulted from long-term drought and fire effects (USFWS consultation number 02ENNM00-2017-I-0255).

In 2022, the HMP was revised for formatting and updated language and to revise Section 5.0 in the Mexican Spotted Owl site plan. This effort was a required mitigation in a recent consultation (USFWS consultation number 02ENNM00-2020-I-1412).

6.0 Data Management

The data used in the implementation of the HMP are stored in a geodatabase at LANL. The current map of all of the AEIs at LANL is shown in Figure A-1 in the appendix.

II. AREA OF ENVIRONMENTAL INTEREST SITE PLAN FOR THE MEXICAN SPOTTED OWL

1.0 Species Description—Mexican Spotted Owl

1.1 Status

In 1993, the USFWS determined the Mexican Spotted Owl to be a threatened species under the authority of the ESA, as amended (58 Federal Register [FR] 14248). In 1995, the USFWS released its final recovery plan for the owl (USFWS 1995), which was revised in 2012 (USFWS 2012). The USFWS most recently designated critical habitat for Mexican Spotted Owl in 2004 (69 FR 53182).

1.2 General Biology

The Mexican Spotted Owl is found in northern Arizona, southeastern Utah, and southwestern Colorado south through New Mexico, west Texas, and into Mexico. It is the only subspecies of Spotted Owl recognized in New Mexico (USFWS 1995).

The Mexican Spotted Owl generally inhabits mixed conifer and ponderosa pine- (Pinus ponderosa; Lawson & C. Lawson) Gambel oak (Quercus gambelli; Nutt.) forests in mountains and canyons. High canopy closure, high stand diversity, multilayered canopy resulting from an uneven-aged stand, large mature trees, downed logs, snags, and stand decadence as indicated by the presence of mistletoe are characteristics of Mexican Spotted Owl habitat. Some owls have been found in second-growth forests (i.e., younger forests that have been logged); however, these areas were found to contain characteristics typical of old-growth forests. Mexican Spotted Owls in the Jemez Mountains prefer cliff faces in canyons for their nest sites (Johnson and Johnson 1985). The recovery plan for the Mexican Spotted Owl recommends that mixed conifer and pine-oak woodland types on slopes greater than 40 percent be protected for the conservation of this owl.

A mated pair of adult Spotted Owls might use the same home range and general nesting areas throughout their lives. A pair of owls requires approximately 800 ha (1,976 ac) of suitable nesting and foraging habitat to ensure reproductive success. Incubation is carried out by the female. The incubation period is approximately 30 days, and most eggs hatch by the end of May. Most owlets fledge in June, 34 to 36 days after hatching (USFWS 1995). The owlets are “semi-independent” by late August or early September, although juvenile begging calls have been heard as late as September 30. Young are fully independent by early October. The non-breeding season runs from September 1 through February 28. Although seasonal movements vary among owls, most adults remain within their summer home ranges throughout the year.

The diet of Mexican Spotted Owls who nest in canyons consists primarily of woodrats (*Neotoma spp.*) and deer mice (*Peromyscus spp.*), with fewer numbers of rabbits, birds, reptiles, and arthropods (Willey 2013). The relative abundance of prey types in Mexican Spotted Owl pellets collected at LANL is listed in Table A-1 in the appendix. Ganey and Balda (1994) found that core areas of individuals (i.e., where owls spent 60 percent of their time) averaged 134 ha (331 ac), and core areas for pairs averaged 160 ha (395 ac).

1.3 *Threats*

The Mexican Spotted Owl was listed as threatened because of destruction and modification of habitat caused by timber harvest, wildfires, increased predation on owls associated with habitat fragmentation, and a lack of adequate protective regulations.

2.0 **Impact of Human Activities**

2.1 *Introduction*

The primary threats to Mexican Spotted Owls on LANL property are (1) impacts to habitat quality from LANL operations and (2) disturbance of nesting owls. This section provides a review and summary of scientific knowledge of the effects of various types of human activities on the Mexican Spotted Owl and provides an overview of the current levels of activities at LANL.

2.2 *Impacts on Habitat Quality*

2.2.1 **Development**

The type of habitat used by Mexican Spotted Owls—late seral stage forests with large trees—is usually not found in large quantities near developed areas or near areas that have experienced recent agricultural or forest product extraction land uses; therefore, Mexican Spotted Owls generally are not found near developments. Whether it is the development or a lack of suitable habitat that discourages colonization of these areas by Mexican Spotted Owls is unknown.

Areas of LANL vary from remote, undeveloped areas to heavily developed and/or industrialized facilities. Most LANL facilities are situated atop mesas, primarily in the northern and western portion of the DOE property. LANL is bounded by developed residential, industrial, and retail areas along its northern boundary (the town of Los Alamos) and by residential and retail development along a portion of its eastern boundary (the town of White Rock). Three major paved roads traverse LANL from northeast to southwest. Sandia, Pajarito, and Los Alamos canyons have paved roads within AEIs, and several AEIs have dirt roads along at least a portion of the canyon bottom. AEIs that contain paved or dirt roads in the canyon bottoms have not been occupied at LANL (Hathcock et al. 2010).

2.2.2 **Ecological Risk**

No specific information exists on the impact of chemicals on the Mexican Spotted Owl, although experience with other raptor species suggests that exposure to polychlorinated biphenyls (PCBs), dichloro-diphenyl-trichloroethane (DDT) and its derivatives, and other organophosphate or organochlorine pesticides would probably be harmful. Exposure to other chemicals could also be harmful (Cain 1988).

Between 1997 and 2009, LANL subject matter experts completed three ecological risk assessments that included the Mexican Spotted Owl. The ecological risk assessment process involves using computer modeling to assess potential effects to animals from chemicals of potential concern that have been detected in the environment. All of the following ecological risk assessments concluded that, on average, no appreciable impact to Mexican Spotted Owls is expected from chemicals of potential concern (Gallegos et al. 1997; Gonzales et al. 2004; Gonzales et al. 2009).

2.2.3 Disturbance

Pedestrians and Vehicles

Based on work with other raptors, LANL biologists assume that Mexican Spotted Owls would likely be disturbed by the approach of either pedestrians or vehicles. At an equal distance, pedestrians are frequently more disturbing to raptors than vehicles (Grubb and King 1991). Brown and Stevens (1997) reported that, during surveys in Grand Canyon National Park, 22 times more Bald Eagles were found in canyon reaches with low human recreational use compared with reaches with moderate-to-high human recreational use. Human activity 100 m (328 ft) from Bald Eagle nests in Alaska caused clear and consistent changes in behavior of breeding eagles (Steidl and Anthony 2000).

Swarthout and Steidl (2001) found that both juvenile and adult roosting Mexican Spotted Owls were unlikely to alter their behavior in the presence of a single hiker at distances greater than 55 m (180 ft). Swarthout and Steidl (2003) concluded that cumulative effects of high levels of short-duration recreational hiking near Mexican Spotted Owl nests could be detrimental.

Many canyon bottoms and mesa tops at LANL have dirt roads traversing them. Most of these roads are gated; however, these roads are accessible to LANL employees, and some of them are accessible to the public on foot or by bike. LANL biologists found that AEIs are occupied less often if there is recreational access into a canyon (Hathcock et al. 2010).

Aircraft

Ground-based disturbances appear to impact raptor reproductive success more than aerial disturbances (Grubb and King 1991). Grubb and Bowerman (1997) concluded that an exclusion of aircraft within 600 m (1,968 ft) of Bald Eagle nest sites would limit Bald Eagle response frequency to 19 percent.

Delaney et al. (1999) found that, for Mexican Spotted Owls, chainsaws consistently elicited higher response rates than helicopters at similar distances. Owl flush rates did not differ between nesting and non-nesting seasons. No owls flushed when noise stimuli (helicopter or chainsaws) were at distances greater than 105 m (344 ft). Distance was generally a better predictor of owl response to helicopter overflights than sound level.

LANL is restricted airspace, and planes infrequently fly less than 609 m (2,000 ft) above ground level. The County of Los Alamos operates an airport along the northern edge of LANL. The airport is located on the southern rim of Pueblo Canyon. Most flights approach and depart to the east of the airport, over the Rio Grande.

Explosives

No specific information is currently available on the reaction of Mexican Spotted Owls to explosives detonation. Explosive blasts set off 120 to 140 m (393 to 459 ft) from active Prairie Falcon (*Falco mexicanus*) nests caused perched Prairie Falcons to flush from perches 79 percent of the time and, in 26 percent of the cases, caused incubating Prairie Falcons to flush from nests. Measured sound levels at aerie entrances during blasts ranged from 129 to 141 decibels (dB) (Holthuijzen et al. 1990). Explosives blasting for dam construction 560 to 1,000 m (1,837 to 3,280 ft) from active Prairie Falcon nests caused a change in behavior 26 percent of the time, and birds flushed in 17 percent of all cases. No incubating birds flushed (Holthuijzen et al. 1990). Brown et al. (1999) found little activity change in roosting or

nesting Bald Eagles and no population-level impacts from weapons detonations at the Aberdeen Proving Ground. Holthuijzen et al. (1990) found that a 167-gram (g; 5.89-ounce [oz]) charge of Kinestik produced noise levels between 138 and 141 dB at 100 m (328 ft) and that a 500-g (17.6-oz) charge of trinitrotoluene(2,4,6-) (TNT) produced noise levels between 144 and 146 dB at 100 m (328 ft). A 20-kilogram (kg; 44-pound [lb]) charge of TNT produced noise levels that measured 163 dB at 100 m (328 ft) (Paakkonen 1991).

Measurements of noise levels during explosives testing were conducted at three locations at LANL using quantities of high explosives ranging from 4.5 to 67.5 kg (10 to 148 lb) of TNT during six shots. Noise levels increased during the test from a background level of 31 A-weighted decibels [dB(A)] to a range between 64 and 71 dB(A) during shots at a distance of 1.8 kilometers (km; 1.1 miles [mi]). At a distance of 4.3 km (2.67 mi), noise levels rose from a background range of 35 to 64 dB(A) to a range of 60 to 63 dB(A) (Vigil 1995). At a distance of 6.7 km (4.16 mi), noise levels rose from a background range of 38 to 51 dB(A) to a range of 60 to 71 dB(A) (Burns 1995). LANL biologists estimated that the noise from a shot at the Dual-Axis Radiographic Hydrodynamic Test (DARHT) Facility would be 150 dB(A) at the source and 80 dB(A) at 400 m (1,312 ft) (Keller and Risberg 1995). LANL biologists found that Mexican Spotted Owl AEIs located within the explosives-testing buffer area were occupied more frequently than AEIs in other locations (Hathcock et al. 2010)—likely due to the strict access control in explosives areas that limits human activity and development in the canyon bottoms.

Other Sources of Noise

Major noise-producing activities at LANL include automobile and truck traffic and noise associated with office buildings, construction activities, a live-fire range, and explosives testing. Noise is also associated with aircraft traffic at the Los Alamos County Airport. Construction and maintenance activities involved with operations at LANL are fairly common. In addition, implementation of the 2016 Compliance Order on Consent issued by the New Mexico Environmental Department has resulted in an increased frequency of drilling groundwater-monitoring wells in protected habitat at LANL. Also, forest fuels management operations use chainsaws, chippers, and other noise-generating equipment. The 2010 National Pollutant Discharge Elimination System Individual Permit (EPA 2010) issued by the Environmental Protection Agency requires LANL to comply with minimizing pollutants in storm water discharges from associated historical industrial activities. To do so, site-specific stormwater and sediment control features such as berms, rock check dams, and other best management practices (BMPs) are installed at various sites around LANL. These BMPs—and the associated monitoring required—often occur in canyon bottoms in protected habitat. LANL biologists conducted a study of noise levels in canyons and found that the primary sources of noise that exceed 55 dB(A) were cars and trucks. Readings taken near flowing water were up to 11 dB(A) higher than readings taken elsewhere. The average dB(A) in canyons near paved roads ranged from 41 to 62, with maximum values ranging from 62 to 74. Away from paved roads 1.6 km (1 mi) or more, average dB(A) in canyons ranged from 37 to 50, with all but one average below 45. Maximum dB(A) away from paved roads ranged from 38 to 76; 76 dB(A) was measured during a thunder clap (Huchton et al. 1997).

In December 1997, LANL biologists conducted noise measurements at the Los Alamos County Airport and in Bayo and Pueblo canyons, including the Los Alamos County Sewage Treatment Facility. Sound levels near the airport runway during the maximum use time (6:30 to 7:30 a.m.) had background values averaging 54 dB(A). Noise during plane arrivals ranged from 47 to 63 dB(A). No measurements were collected during plane take-off. Sound measurements conducted in the bottoms of Pueblo and Bayo canyons ranged from 37 to 40 dB(A) in most areas of the canyon. At the sewage treatment facility

parking lot during a working day, the average dB(A) during a 3-minute period was 46 (range 45 to 49). At the intersection of the road going into Pueblo Canyon with State Road 502, the average dB(A) during a 3-minute period was 60 (range 41 to 70).

LANL biologists conducted sound measurements at successive distances from an industrial area near a canyon rim, into the canyon, and to the opposite rim using a C-weighted decibel (dB(C)) scale (Keller and Foxx 1997). Measurements of noise levels using the dB(C) scale are greater than if measured using the dB(A) scale. The average background noise on the mesa was 65.8 dB(C) [with a range of 43 to 81 dB(C)]. The average background noise in the canyon bottom was 62.3 dB(C) [with a range of 54 to 78 dB(C)]. The average background noise at the bottom of the north-facing slope was 53.8 dB(C) [with a range of 48 to 64 dB(C)]. Measurements were taken mid-day.

LANL biologists measured sound levels from various pieces of construction equipment used at LANL project sites over 5-minute intervals at distances of 6 to 31 m (20 to 100 ft) (Knight and Vrooman 1999). Average values ranged from 58.5 to 80.9 dB(A). Peak values ranged from 75.7 to 155.4 dB(A). Additional data were collected by other LANL operators on specific pieces of construction equipment and on the Security Computer Complex construction site fence perimeter at Technical Area 3 before and during construction (Knight and Vrooman 1999). The average noise level before construction began was 56.6 dB(A), and the average during construction was 82.1 dB(A).

LANL biologists conducted a series of sound measurements at LANL to investigate background noise levels around AEIs (Vrooman et al. 2000). Background noise levels were significantly higher in daytime than in nighttime. AEIs with greater than a 10 percent developed area in their buffers had significantly higher levels of background noise than undeveloped AEIs. The mean background sound level was 51.3 dB(A) in developed AEIs and 39.6 dB(A) in undeveloped AEIs. The LANL biological resources project review process uses the individual AEI background measurements from Vrooman et al. (2000) to screen project activities for increases more than 6 dB(A) above background.

LANL biologists took sound-level measurements of heavy equipment use associated with concrete recycling on Sigma Mesa at LANL in 2004 (Hansen 2004). At this location, background noise levels at two different locations were 55.2 and 58.8 dB(A). Operation of a dump truck hauling and dumping concrete increased noise levels above background by a mean of 22.7 dB(A) at 30 m (98 ft) and 2.4 dB(A) at 80 m (262 ft). Additional sound-level measurements were taken in the same general area on Sigma Mesa in 2005 as part of a biological assessment for the operation of an asphalt batch plant (Hansen 2005). Measurements were taken on the north rim of Mortandad Canyon (south of the asphalt batch plant at distances of approximately 30 to 122 m (100 to 400 ft), at the bottom of Mortandad Canyon approximately 183 to 244 m (600 to 800 ft) from the asphalt batch plant, and on the south rim of Mortandad Canyon approximately 305 m (1,000 ft) from the asphalt batch plant. Background noise levels at the various locations ranged from 41.1 to 48.7 dB(A). The only locations with increases greater than 3 dB(A) during operation of the asphalt batch plant were the locations on the north rim of Mortandad Canyon, within 122 m (400 ft) of the asphalt batch plant. Noise from the operation of the asphalt batch plant was not detected in the bottom of Mortandad Canyon or on the south rim.

LANL biologists took sound-level measurements around the LANL TA-3, Building 1076 with the heating, ventilation, and air conditioning (HVAC) system on and with it off (Hansen 2009). The area to the north of the TA-3, Building 1076 is developed; the area to the south is not. Background noise levels north of the facility ranged from 53.6 to 57.6 dB(A). Background noise levels south of the facility ranged

from 41.6 to 49.7 dB(A). Noise from the HVAC system was detected at 25 m (82 ft) from the facility on both sides but was not detected at 81 m (266 ft) on the north side or at 107 m (351 ft) on the south side.

In 2020, LANL biologists conducted noise-level assessments around TA-35 to support a biological assessment (LANL 2020). Noise levels were measured along core habitat for the Mexican Spotted Owl in the Sandia-Mortandad AEI in TA-35. The average across all locations and sampling time intervals in this study was 47.47 dB(A), which was 5.27 dB(A) lower than the Vrooman et al. (2000) average.

Overall, these studies appear to show that areas adjacent to or within developed areas or paved roads are likely to have daytime average background noise levels between 45 and 63 dB(A). Less-disturbed areas are likely to have average background noise levels between 37 and 50 dB(A).

Artificially Produced Light

No information is available on the effects of artificially produced light on Mexican Spotted Owls. Under the Los Alamos County Code, commercial site development plans are reviewed to ensure that lighting serves the intended use of the site while minimizing adverse impacts to adjacent residential property (Section 16-276). Section 16-276 of the County Code includes light-source measurement limitations by zoning district. The code allows offsite light to be 0.5 foot-candles (fc) in residential areas. By comparison, full moonlight measures 0.1 fc, and a crescent moon was measured at 0.01 fc. Table A-2 in the appendix presents preliminary light measurements in foot-candles.

Preliminary surveys were conducted for light levels within Los Alamos Canyon at the Omega Reactor (Keller and Foxx 1997). The Omega Reactor was brightly lit for purposes of security; therefore, total light intensity was greater than the average street lighting. Measurements were conducted at a light pole in an open parking lot at the reactor as the source. Trees did not obscure the area. Using the relationship of light intensity reducing as a square of the distance, calculations using the field data indicated that at 30 m (98 ft) from the source, the light levels would be equivalent or nearly equivalent to full moonlight.

3.0 AEI General Description for Mexican Spotted Owl

An AEI consists of two areas: a core and a buffer. The core of the habitat is defined as suitable canyon habitat from rim to rim and 100 m (328 ft) out from the top of the canyon rim. The buffer area is 400 m (1,312 ft) wide, extending outward from the edge of the core area. Although adult Mexican Spotted Owls might be found within their home range anytime throughout the year, the primary threat from disturbance to the owls is during the breeding season when owl pairs are tied to their nest sites; therefore, management of disturbance in Mexican Spotted Owl AEIs is concentrated on the breeding season.

3.1 Method for Identifying a Mexican Spotted Owl AEI

The original location of each Mexican Spotted Owl AEI was identified using a habitat model developed by Johnson (1998) that classified nesting and roosting habitat for Mexican Spotted Owls using topographic characteristics and vegetative diversity. LANL biologists compared the results from the Johnson (1998) model with a different model that identified slopes >40 percent in mixed conifer and ponderosa pine cover types at LANL. Areas identified from the Johnson (1998) model application to LANL that were greater than five contiguous 30 × 30 m (98 × 98 ft) pixels in size, were above 1,980 m (6,496 ft) in elevation, and that had mixed conifer or ponderosa pine forest cover were considered suitable

Mexican Spotted Owl habitat. Where suitable habitat was identified, AEI core area boundaries were established to include the canyons and 100 m (328 ft) outward from the canyon rims.

Following the Cerro Grande wildfire, an updated Mexican Spotted Owl habitat model was developed and refined for application on LANL property (Hathcock and Haarmann 2008). This model incorporated finer-scale vegetation characteristics into the Mexican Spotted Owl habitat quality assessment and was used to redelineate the boundaries of the Mexican Spotted Owl AEIs at LANL in 2005 following wildfire, drought, and a regional bark beetle outbreak (USFWS consultation number 22420-2006-I-0010).

The new core boundaries were delineated with an area approximately 0.4 km (0.25 mi) from the edge of the nearest suitable habitat, up and down canyon. Core boundaries were established along readily recognizable geologic features or anthropogenic features in the terrain wherever possible to facilitate the ease of identification of core boundaries when in the field.

3.2 *Location and Number of Mexican Spotted Owl AEIs*

There are currently five Mexican Spotted Owl AEIs on LANL property, each encompassing one or more canyons. In general, the AEI cores are centered in canyons on the western side of LANL. The canyons with AEIs are Cañon de Valle, Water, Pajarito, Los Alamos, Sandia, Mortandad, and Three-mile.

4.0 AEI Management

4.1 *Overview*

This AEI management section provides guidelines for LANL operations to reduce or eliminate the threats to Mexican Spotted Owls from (1) habitat alterations that reduce habitat quality and (2) disturbance of breeding or potentially breeding owls. Habitat alterations are considered for all AEIs and for both core and buffer areas. Disturbance activities to owls are considered only for occupied AEIs and only for impacts on core areas. Developed areas (see Section I.3.1) that have ongoing baseline levels of activities and are not suitable habitat for Mexican Spotted Owls have different restrictions than undeveloped core or buffer areas; therefore, the location of the disturbance activity within the AEI, the occupancy status of the AEI, and the type of activity all affect whether the activity is allowable. AEIs for different species may overlap, and an activity must meet the guidelines of all applicable site plans to be allowable.

4.2 *Definition and Role of Occupancy in AEI Management*

Occupancy simply refers to whether an AEI is occupied during a species' period of sensitivity. For Mexican Spotted Owls, the primary concern is to protect the owls from disturbance during the breeding season. Because individuals can colonize suitable habitat, all Mexican Spotted Owl AEIs are treated as though they are occupied from March 1 through August 31 or until surveys show an AEI to be unoccupied. Mexican Spotted Owl surveys are conducted from late March through June. In general, surveys in areas with ongoing or proposed projects are completed by May 15. If a nest is located during surveys, then the AEI can be treated as unoccupied except for the area within a 400 m (1,312 ft) radius of the nest site. Because owls are not as sensitive to disturbance during the non-breeding season, Mexican Spotted Owl AEIs are treated as unoccupied from September 1 to February 28.

The occupancy status of an AEI affects what activities are allowable in the AEI. Although activities that cause habitat alterations are restricted in all AEIs, disturbance activities are restricted only in occupied

AEIs. The Activity Table (Table II-1, Section II.4.5.2) provides dates and levels of allowable disturbance activities within occupied Mexican Spotted Owl AEIs under the guidelines of this site plan. Contact a LANL biologist to find out the current occupancy status of an AEI (<https://int.lanl.gov/environment/bio/index.shtml>).

4.3 *Introduction to AEI Management Guidelines*

Sections 4.4 and II.4.5 provide the guidelines for habitat alterations and allowable activities in AEI core and buffer areas. Section II.4.4 describes what and where habitat alterations are allowed under the guidelines of this site plan. Section II.4.5 describes what, when, and where disturbance activities are allowed in occupied AEIs under the guidelines of this site plan. If an activity does not meet the restrictions given in the guidelines, the activity must be individually reviewed for ESA compliance. This site plan provides only guidelines for Mexican Spotted Owl AEIs. If an activity is desired in an area with overlapping AEIs, all applicable site plans must be consulted. AEI maps show the location of all AEIs in an area. Section II.4.6 describes management practices that should be applied when working or considering work in an AEI. LANL biologists are available to answer questions and provide advice (<https://int.lanl.gov/environment/bio/index.shtml>).

4.4 *Definition of and Restrictions on Habitat Alterations*

4.4.1 *Definition of Habitat Alterations*

Habitat alteration includes any action that alters the soil structure, vegetative components necessary to the species, prey quality and quantity, water quality, hydrology, or noise or light levels in undeveloped areas of an AEI. Long term means the alteration lasts for more than 1 year. For physical disturbances, in general, any activity that can be accomplished by one person with a hand tool generally is not considered habitat alteration; any activity that requires mechanized equipment on a landscape is habitat alteration. An actual activity may take place outside of the AEI and will be considered habitat alteration if consequences of the activity have effects inside the AEI core.

The habitat components most important to Mexican Spotted Owls include vegetative structure, food quality and quantity, and disturbance levels, including noise and light. The forest structure within a canyon designated as a Mexican Spotted Owl AEI is important because it provides roost sites and suitable habitat for nesting and foraging. Trees along the canyon rim are used for foraging and territorial calling, and they shelter the canyon interior from light and noise disturbances.

A long-term change in light or noise levels within the undeveloped core of an AEI is considered to be a habitat alteration if it increases average noise levels by >6 dB(A) during any portion of the 24-hour day or if it increases average light levels by >0.05 fc at night. Changes in noise and light levels are measured at the core area boundary if the source is outside the core area or at 10 m (33 ft) from the source if the source is inside the undeveloped core area. Impacts of changes in developed areas on undeveloped cores are measured at the developed area boundary if it is within the core or at the core area boundary if the developed area is outside of the core.

4.4.2 *Fuels Management Practices to Reduce Wildfire Risk*

The recovery plan for the Mexican Spotted Owl lists stand-replacing wildfires as a primary threat to their habitat and encourages land managers to reduce fuel levels and abate fire risks in ways compatible with

owl presence on the landscape (USFWS 1995). Within undeveloped core areas, on slopes >40 percent, in the bottoms of steep canyons, and within 30 m (100 ft) of a canyon rim, thinning of trees <22 centimeters (cm; 9 inches [in.]) diameter at breast height, treatment of fuels, and prescribed and natural prescribed fires are allowed. Exceptions that allow trees >22 cm (9 in.) to be thinned within 30 m (100 ft) of buildings are granted to protect facilities. Large logs (>30 cm [11.8 in.] midpoint diameter) and snags should be retained. Thinning within core areas that do not meet the characteristics listed above and in buffer areas may include trees of any size to achieve 8 m (25 ft) spacing between tree crowns; however, clear cutting is not allowed in undeveloped core areas.

For health and safety reasons, any trees within 30 m (100 ft) of buildings but outside a developed area may be thinned to achieve 8 m (25 ft) spacing between crowns. Habitat alterations, including thinning, are not restricted in developed areas; however, LANL biologists encourage the retention of trees and snags along canyon rims if the rim is in a developed area. Because of the extreme fire danger associated with firing sites and the potential impact of a fire on Mexican Spotted Owl habitat, firing sites and burn areas are treated separately for the purposes of fuels management. Trees within 380 m (1,246 ft) of firing sites and burn areas in both core and buffer areas may be thinned to a 15-m (49-ft) spacing between trees everywhere except on slopes >40 percent or in the bottoms of steep canyons. Any tree in excess of 22 cm (9 in.) diameter at breast height within 380 m (1,246 ft) of a firing site may be delimited to a height of 2 m (6 ft) to help prevent crown fires.

In historically occupied core areas, fuels treatment may not exceed 10 percent of the undeveloped core area and is not allowed within 400 m (1,312 ft) of nesting areas. In occupied core areas, forest management activities must take place during the nonbreeding season (September 1 to February 28) (USFWS 1995).

4.4.3 Utility Corridors

Habitat alterations, such as cutting down trees that threaten power lines, are allowed within 8 m (26 ft) of either side of an existing utility line in all areas of an AEI (LANL 2020). New utility lines and utility lines that require clearance of a right-of-way greater than 16 m (52 ft) total must be individually reviewed for ESA compliance. Disturbance activities must follow the guidelines given in the Activities Table (Table II-1, Section II.4.5.2) for occupied AEIs.

4.4.4 Restrictions on Habitat Alterations

Habitat alterations other than the fuels management practices and utility corridor maintenance described above are not allowed in undeveloped core areas under the guidelines of this site plan. If a project or activity is planned that would alter habitat in an undeveloped core area, it must be individually evaluated for ESA compliance. Habitat alterations in undeveloped buffer areas other than the fuels management activities and utility corridor maintenance described above are restricted to 2 ha (5 ac) in area per project and are subject to other restrictions, including light and noise effects in the core (see Section II.2.2.3). Projects in the buffer area larger than 2 ha (5 ac) in size will require individual ESA compliance review. A cumulative maximum area may be developed in each AEI's buffer. Once that cumulative area is reached, all habitat alterations in a buffer will require individual ESA reviews for compliance.

4.5 *Definition of and Restrictions on Disturbance Activities*

4.5.1 Definitions of Disturbance Activities

LANL biologists considered six categories of activities that might cause disturbance in an AEI. Most of the categories were first identified in the document “Peregrine Falcon Habitat Management in the National Forests of New Mexico,” prepared for the United States Forest Service (Johnson 1994). LANL biologists added explosives detonation, other light production, and other noise production to provide the most comprehensive list of activities possible, thereby reducing the need for individual review of activities for ESA compliance. The categories of activities are people, vehicles, aircraft, other light production, other noise production, and explosives detonation. LANL biologists defined low, medium, and high levels of impact for these activities except for explosives detonation. Activity levels for explosives detonation have been designed to follow the guidelines agreed upon by LANL, DOE, and USFWS in the DARHT biological assessment (Keller and Risberg 1995). Restrictions on explosives detonation are described in the definition of the activity but are not included in the Activity Table (Table II-1, Section II.4.5.2). These six categories of activities are restricted only in AEIs that are classified as occupied.

People—includes any entry of people into an AEI on foot

- Low impact is the presence of three or fewer people per project and duration of 1 day or less during a breeding season.
- Medium impact is the exceedance of either the number of people or the duration criteria.
- High impact is the exceedance of both the number of people and the duration criteria.

Vehicles—includes the entry of any two-axle highway vehicle, all-terrain vehicle, or motorized machinery into an AEI by any route other than a paved road or an improved gravel road

- Low impact is the presence of two or fewer vehicles per project and duration of 1 day or less during a breeding season.
- Medium impact is the exceedance of either the number of vehicles or the duration criteria.
- High impact is the exceedance of both the number of vehicles and the duration criteria.

Aircraft—includes the operation of any aircraft below an elevation of 600 m (2,000 ft) above the highest ground level in the local vicinity

- Low impact is the presence of one single-engine airplane and the duration of 1 day or less during a breeding season.
- Medium impact is the exceedance of either the number of aircraft or the duration criteria.
- High impact is the exceedance of both the number of aircraft and the duration criteria.

Any use of helicopters, jet airplanes, and propeller airplanes with two or more engines is classified as medium impact or above, depending on duration.

Other Light Production—includes any activity not previously listed that causes additional light to occur in an AEI core area. For example, plans for construction of a new building at the edge of a developed area may call for lighting at night to facilitate nighttime work that impacts an undeveloped core area.

- Low impact is the increase of light intensity by ≤ 0.05 fc and a duration of 1 night or less per project per breeding season.
- Medium impact is the exceedance of either the intensity or duration criteria.
- High impact is the exceedance of both the intensity and duration criteria.

Measurements for increases in light are taken at the AEI core area boundary closest to the light source if the source is outside the core and at 10 m (33 ft) from the source if the source is inside the core. Light measurements for developed areas are taken at the edge of the developed area if the developed area is within an AEI core or at the closest core boundary if the developed area is outside of an AEI core.

Other Noise Production—includes any activity not previously listed except for explosives detonation that causes additional noise to occur in an AEI. For example, operation of machinery creates noise.

- Low impact is increasing noise levels in an AEI core by 6 dB(A) or less for 1 day or less per project per breeding season.
- Medium impact is the exceedance of either the level or the duration criteria.
- High impact is the exceedance of both the level and the duration criteria.

Measurements for increases in noise are taken at the AEI core boundary closest to the noise source if the source is outside the core and at 10 m (33 ft) from the source if the source is inside the core. Noise measurements for developed areas are taken at the edge of the developed area if the developed area is within an AEI core or at the closest core boundary if the developed area is outside of an AEI core.

Explosives Detonation—includes the use of high explosives for any purpose. LANL biologists did not define low, medium, and high levels of this activity because of the difficulty of determining levels for a shot before actually doing the shot. For the purpose of explosives detonation near Mexican Spotted Owl AEIs, occupied habitat is defined as the area within 400 m (1,312 ft) of the current year's nest/roost sites or the previous year's nest site if a current site has not been identified. No explosives detonation will take place within 400 m (1,312 ft) of nest/roost sites in occupied habitat between March 1 and August 31. Explosives detonation at night at sites within 400 to 800 m (1,312 to 2,624 ft) of a nest site in occupied habitat is restricted to once per month from March 1 and August 31. No restrictions exist on daytime explosives testing between 400 and 800 m (1,312 to 2,624 ft), and no restrictions exist between September 1 and February 28 or in unoccupied habitat. Explosives detonation adjacent to AEIs that have not previously been recorded by LANL biologists as occupied will have no restrictions unless surveys detect Mexican Spotted Owls. Explosives tests not allowed under the guidelines of this site plan must be individually reviewed for ESA compliance.

4.5.2 Activity Table

The dates shown in the Activity Table (Table II-1) are the dates between which the activity in the row is restricted under the guidelines of this site plan. All AEIs are considered occupied from March 1 to August 31 or until surveys show an AEI to be unoccupied. If owls are detected, AEIs are considered occupied

until August 31 within 400 m (1,312 ft) of the nest site. Consult with LANL biologists to find out occupancy status of AEIs and what locations are within 400 m (1,312 ft) of nest sites (<https://int.lanl.gov/environment/bio/index.shtml>).

Table II-1. Restrictions on Activities in Undeveloped Occupied Mexican Spotted Owl AEIs

| Levels of Impact | Core | Buffer |
|--|----------------------|----------------------|
| People | | |
| Low | No Restrictions* | No Restrictions |
| Medium | March 1 to August 31 | No Restrictions |
| High | March 1 to August 31 | No Restrictions |
| Vehicles | | |
| Low | No Restrictions | No Restrictions |
| Medium | March 1 to August 31 | No Restrictions |
| High | March 1 to August 31 | No Restrictions |
| Aircraft | | |
| Low | March 1 to August 31 | No Restrictions |
| Medium | March 1 to August 31 | March 1 to May 15 |
| High | March 1 to August 31 | March 1 to August 31 |
| Other Light Production | | |
| Low | March 1 to August 31 | No Restrictions** |
| Medium | March 1 to August 31 | No Restrictions** |
| High | March 1 to August 31 | No Restrictions** |
| Other Noise Production | | |
| Low | March 1 to August 31 | No Restrictions** |
| Medium | March 1 to August 31 | No Restrictions** |
| High | March 1 to August 31 | No Restrictions** |
| Explosives Detonation (see text in Section 4.5.1) | | |

* Entry is restricted in core areas that are occupied within 400 m (1,312 ft) of the nest site from March 1 to August 31. If the current nest has not been located, entry is restricted within 400 m (1,312 ft) of the previous year's nest site.

** Noise or light production in the buffer is restricted if the activity would violate core area restrictions on noise or light.

4.6 Protective Measures

This section provides a list of management practices to apply in Mexican Spotted Owl AEIs.

- Timing of projects must take into account that projects in core areas or projects that violate restrictions for occupied buffer areas must stop on February 28 of each year until occupancy status of the AEI is determined.
- Make every reasonable effort to reduce the noise from explosives testing within 800 m (2,624 ft) of occupied habitat. Methods to reduce noise could include contained shots, noise shields in the direction of AEI cores, etc. For night shots, every reasonable effort should be made to limit the amount of light directed into AEI core areas.
- Install signs on dirt roads and trails that lead into AEIs, posting them as restricted access areas and providing a contact number for access restrictions.

-
- Keep disturbance and noise to a minimum.
 - Avoid unnecessary disturbance to vegetation (e.g., excessive parking areas or equipment storage areas, off-road travel, materials storage areas, crossing of streams or washes).
 - Avoid removal of vegetation along drainage systems and stream channels.
 - Avoid all vegetation removals not absolutely necessary.
 - Employ appropriate erosion and runoff controls to reduce soil loss. The controls must be put in place and periodically checked throughout the life of projects.
 - Revegetate all exposed soils as soon as feasible after construction to minimize erosion.
 - Focus development away from undeveloped areas on the western end of the Los Alamos Canyon AEI.

5.0 Allowable Habitat Alteration in the Buffer Areas

The following quantifications of development and guidance for allowable habitat alteration in buffer areas were published and consulted on in the 1999 version of the HMP. Most AEIs changed in dimensions during the 2005 redelineation of the habitats, and many have experienced additional development under past consultations. Many projects were reviewed and received USFWS concurrence between 1999 and 2017.

The current development status for each of the AEIs is at the end of each AEI description. This section was updated in the 2022 revision. The original framework for the HMP included allowable levels of future development in buffer habitat for each AEI. The AEI boundaries have changed over time, so the percent of allowable development was used to compare 1999 values to 2022 levels.

Cañon de Valle

In 1999, 16.3 ha (40.3 ac) of the core was developed, and 52.2 ha (129 ac) of the buffer was developed. For this AEI, it was recommended that only an additional 25.30 ha (62.5 ac) of the AEI buffer be developed, which is 9.7 percent. The 1999 HMP stated that once this cap is reached or a large-scale project is proposed, additional consultation with USFWS would be required. By 2011, 28 ha (69.2 ac) of the core and 84 ha (207.5 ac) of the buffer was developed, with most of the changes due to consultations. The 2017 redelineation of the lower Water Canyon AEI resulted in another reduction of 69 ha (170 ac). The current size of this AEI is 277 ha (685 ac) of core and 524 ha (1,295 ac) of buffer habitat. Of that, 18.6 ha (46 ac) of the current core is developed, and 80.5 ha (199 ac) of the current buffer is developed. As of this 2022 HMP revision, 15.47 percent of the buffer is developed. Any future development in buffer would require a consultation.

Pajarito

In 1999, 6.7 ha (16.5 ac) of the core was developed, and 75.1 ha (186.5 ac) of the buffer was developed. For this AEI, it was recommended that only an additional 35 ha (86.4 ac) of the buffer be developed, which is 21.8 percent. The 1999 HMP stated that once the cap is reached or a single large-scale project is proposed, additional consultation with the USFWS would be required. By 2011, 27 ha (66.7 ac) of the core and 89 ha (220 ac) of the buffer was developed, with most of the changes due to consultations. The current size of this AEI is 236 ha (585 ac) of core and 449 ha (1,111 ac) of buffer habitat. Of that, 29.5 ha

(73 ac) of the current core is developed, and 101.5 ha (251 ac) of the current buffer is developed. As of this 2022 HMP revision, 22.6 percent of the buffer is developed. Any future development in buffer would require a consultation.

Los Alamos

In 1999, 77.16 ha (190 ac) of the core was developed, and 167.2 ha (413.1 ac) of the buffer was developed, which is 9.97 percent. Because this AEI is heavily developed, additional development was restricted to a few selected areas within the buffer. By 2011, 94 ha (232.2 ac) of the core and 181 ha (447.3 ac) of the buffer was developed, with most of the changes due to consultations. The current size of this AEI is 325 ha (805 ac) of core and 535 ha (1,323 ac) of buffer habitat. Of that, 125.4 ha (310 ac) of the current core is developed, and 347.2 ha (858 ac) of the current buffer is developed. These increases are largely due to large tracts of land that were transferred to Los Alamos County through the Land Conveyance and Transfer project (USFWS consultation number 2-22-01-F-634). As of this 2022 HMP revision, 64.8 percent of the buffer is developed. Any future development in buffer would require a consultation.

Sandia-Mortandad

In 1999, 29 ha (71.7 ac) of the core was developed, and 75.1 ha (185.6 ac) of the buffer was developed. For this AEI, it was recommended that only an additional 38.1 ha (94.1 ac) of the buffer be developed, which is 20.2 percent, before additional USFWS consultations take place. By 2011, 45 ha (111.2 ac) of the core and 83 ha (205.1 ac) of the buffer was developed, with most of the changes due to consultations. The current size of this AEI is 270 ha (669 ac) of core and 371 ha (918 ac) of buffer habitat. Of that, 48.5 ha (120 ac) of the current core is developed, and 101.2 ha (250 ac) of the current buffer is developed. As of this 2022 HMP revision, 27.2 percent of the buffer is developed. Any future development in buffer would require a consultation.

Three-mile

In 1999, 3.8 ha (9.4 ac) of the core was developed, and 21.5 ha (51.1 ac) of the buffer was developed. For this AEI, it was recommended that only 64.3 ha (158.8 ac) additional area of buffer be developed, which is 24.9 percent, before additional USFWS consultations take place. By 2011, 12 ha (29.6 ac) of the core and 37 ha (91.4 ac) of the buffer was developed, with most of the changes due to consultations. The current size of this AEI is 131 ha (325 ac) of core and 295 ha (730 ac) of buffer habitat. Of that, 7.2 ha (18 ac) of the current core is developed, and 32.3 ha (80 ac) of the current buffer is developed. As of this 2022 HMP revision, 10.9 percent of the buffer is developed. Additionally, this AEI has been occupied since 2007.

III. AREA OF ENVIRONMENTAL INTEREST SITE PLAN FOR THE SOUTHWESTERN WILLOW FLYCATCHER

1.0 Species Description—Southwestern Willow Flycatcher

1.1 Status

In 1995, the USFWS designated the Southwestern Willow Flycatcher as a federally endangered species (60 FR 10693). The USFWS most recently designated critical habitat for the Southwestern Willow Flycatcher in 2013 (78 FR 343). The most recent recovery plan for the Southwestern Willow Flycatcher was published in 2002 (USFWS 2002).

1.2 General Biology

The Southwestern Willow Flycatcher is one of four subspecies of the Willow Flycatcher. The historic range of the Southwestern Willow Flycatcher included Arizona, California, Colorado, New Mexico, Texas, Utah, and Mexico. Currently, this flycatcher breeds in riparian habitats from southern California to Arizona and New Mexico, plus southern Colorado, Utah, Nevada, and far western Texas. In winter, it is found in southern Mexico, Central America, and northern South America (USFWS 2002).

Southwestern Willow Flycatchers are present in New Mexico from early May through mid-September and breed from late May through late July (Finch and Kelly 1999; USFWS 2002; Yong and Finch 1997). The flycatcher's nesting cycle is approximately 28 days. Three or four eggs are laid at 1-day intervals, and incubation begins when the clutch is complete. The female incubates eggs for approximately 12 days, and the young fledge about 13 days after hatching. Southwestern Willow Flycatchers typically raise one brood per year (USFWS 2002). Because arrival dates vary, northbound migrant Willow Flycatchers (of all subspecies) pass through areas where Southwestern Willow Flycatchers have already begun nesting. Similarly, southbound migrants (of all subspecies) in late July and August might occur where Southwestern Willow Flycatchers are still breeding; therefore, it is only during a short period of the breeding season (approximately June 15 through July 20) that a Willow Flycatcher seen within Southwestern Willow Flycatcher range is probably of that subspecies (USFWS 2002).

The Southwestern Willow Flycatcher nests only along rivers, streams, and other wetlands. It is found in close association with dense stands of willows (*Salix spp.*), arrowweed (*Pluchea spp.*), buttonbush (*Cephalanthus spp.*), tamarisk (*Tamarix spp.*), Russian olive (*Eleagnus angustifolia L.*), and other riparian vegetation, often with a scattered overstory of cottonwood (*Populus spp.*) (USFWS 2002). The size of vegetation patches or habitat mosaics used by Southwestern Willow Flycatchers varies considerably and ranges from as small as 0.8 ha (1.9 ac) to several hundred hectares (Hatten and Paradzick 2003). The Southwestern Willow Flycatcher nests in thickets of trees and shrubs approximately 2 to 15 m (6 to 49 ft) tall, with a high percentage of canopy cover and dense foliage from 0 to 4 m (0 to 13 ft) above ground. Regardless of the plant species composition or height, occupied sites always have dense vegetation in the patch interior (Allison et al. 2003; USFWS 2002).

The Southwestern Willow Flycatcher is an insectivore. It forages within and occasionally above dense riparian vegetation, taking insects on the wing and gleaning them from foliage. The flycatcher's prey includes flies, bees, wasps, ants, beetles, moths, butterflies, grasshoppers, crickets, dragonflies, damselflies, and spiders (Durst et al. 2008; Wiesenborn and Heydon 2007).

1.3 Threats

The current population of Southwestern Willow Flycatchers in the United States occupies an estimated 1,214 territories (Durst et al. 2006). The distribution of breeding groups is highly fragmented, with groups often separated by considerable distances. This subspecies has suffered declines attributed to extensive loss of its cottonwood-willow habitat and to poor productivity resulting from brood parasitism by Brown-headed Cowbirds (*Molothrus ater*) (USFWS 2002).

2.0 Impact of Human Activities

2.1 Introduction

The primary threats to the Southwestern Willow Flycatcher on LANL property are (1) impacts on habitat quality from LANL operations and (2) disturbance of nesting flycatchers. This section includes a review and summary of the known effects of various types of human activities to the Southwestern Willow Flycatcher and an overview of the current levels of activities at LANL within species habitat.

2.2 Impacts on Habitat Quality

2.2.1 Development

Throughout the Southwest, riparian habitats are rare and tend to be small and separated by vast expanses of arid lands. The Southwestern Willow Flycatcher has experienced extensive habitat loss and modification resulting from urban and agricultural development, water diversion and impoundment, channelization of waterways, livestock grazing, off-road vehicle and other recreational uses, and hydrological changes that result from these and other land uses (USFWS 2002). River and stream impoundments, groundwater pumping, and overuse of riparian areas have altered as much as 90 percent of the Southwestern Willow Flycatcher's habitat (USFWS 2002). Loss of cottonwood-willow riparian forests has had widespread impact on the distribution and abundance of bird species associated with that forest. Development may be tolerated if the habitat is left intact.

Because watercourses at LANL tend to be intermittent to ephemeral, riparian habitat is uncommon. Extensive degradation of the riparian zone has occurred along the Rio Grande, caused by feral-cattle grazing and flood-control operations at Cochiti Lake. Other riparian/wetland areas on LANL property are associated with canyon bottoms, the most significant being the Pajarito wetlands in the lower end of Pajarito Canyon. A major paved road parallels the wetlands area in Pajarito Canyon.

2.2.2 Ecological Risk

There is no specific information on the impact of chemicals on the Southwestern Willow Flycatcher.

Ecorisk Assessment

LANL subject matter experts completed two ecological risk assessments between 1997 and 2009 that included the Southwestern Willow Flycatcher. The ecological risk assessment process involves using computer modeling to assess potential effects to animals from chemicals of potential concern that have been detected in the environment. The ecological risk assessments concluded that, in general, there is a small potential for effects to Southwestern Willow Flycatcher from chemicals of potential concern (Gonzales et al. 1998; Gonzales et al. 2009).

An ecotoxicological risk assessment for the Southwestern Willow Flycatcher, centered on the Pajarito wetlands, found that between 7 and 16 percent of 100 hypothetical nest sites examined had hazard indices >1.0 and <10.0, depending on the foraging scenario (Gonzales et al. 1998). This result indicates a small potential for impacts from chemicals. The primary chemicals that drove the risk scenario were pentachlorophenol, aluminum, radium-226, calcium, and thorium-228. Aluminum, radium, and thorium are naturally occurring substances in northern New Mexico.

2.2.3 Disturbance

Pedestrians and Vehicles

No specific information is available on the reactions of Southwestern Willow Flycatchers to pedestrians and vehicles. The recovery plan for the Southwestern Willow Flycatcher recommends providing protected areas, reducing unpredictable activities, providing visual barriers, and reducing noise disturbance (USFWS 2002).

Aircraft

No specific information is available on the reaction of Southwestern Willow Flycatchers to aircraft.

LANL lies within restricted airspace, and planes infrequently fly less than 609 m (2,000 ft) above ground level. The County of Los Alamos operates an airport along the northern edge of LANL. The airport is located on the southern rim of Pueblo Canyon. Most flights approach and depart to the east of the airport, over the Rio Grande.

Explosives

No specific information is available on the reaction of Southwestern Willow Flycatchers to explosives detonation. The Southwestern Willow Flycatcher AEI is not located close to any explosives-testing sites at LANL.

Other Sources of Noise

LANL biologists do not have good information on the effects of noise, including machinery operation, on Southwestern Willow Flycatchers; however, Southwestern Willow Flycatchers are probably not as sensitive to disturbance as some other threatened or endangered species (USFWS 2002). For a description of noise levels at LANL, see Section II.2.2.3.

Artificially Produced Light

No information is available on the effects of artificially produced light on Southwestern Willow Flycatchers. Under the Los Alamos County Code, commercial site development plans are reviewed to ensure that lighting serves the intended use of the site while minimizing adverse impacts to adjacent residential property (Section 16-276). Section 16-276 of the County Code includes light-source measurement limitations by zoning district. The code allows offsite light to be 0.5 fc in residential areas. By comparison, full moonlight measures 0.1 fc, and a crescent moon was measured at 0.01 fc.

3.0 AEI General Description for the Southwestern Willow Flycatcher

The AEI consists of two types of areas: core and buffer. Core areas represent wetland areas with suitable vegetation for nesting, primarily dense willows. The buffer area is the area within 100 m (328 ft) of core areas. The Southwestern Willow Flycatcher AEI on LANL property consists of two separate core areas. For purposes of this site plan, both core areas and associated buffers are considered one AEI unit.

3.1 *Method for Identifying the Southwestern Willow Flycatcher AEI*

The core areas were defined by the presence of riparian habitat and suitable wetland vegetation. These areas were identified in 1994 during a survey of wetlands at LANL and mapped using a global positioning system receiver. Wetlands without stands of dense willows at least 2 m (7 ft) tall and 30 m (98 ft) wide were not included in the AEI. The buffer area is the area within 100 m (328 ft) of the core areas.

3.2 *Location of the Southwestern Willow Flycatcher AEI*

There is one Southwestern Willow Flycatcher AEI on LANL property. It is composed of two core areas with associated buffers. The AEI core areas are located in the bottom of Pajarito Canyon, on the eastern side of LANL adjacent to Pajarito Road and State Road 4.

4.0 AEI Management

4.1 *Overview*

This AEI management section provides guidelines for LANL operations to reduce or eliminate the threats to the Southwestern Willow Flycatcher from (1) habitat alterations that reduce habitat quality and (2) disturbance of breeding or potentially breeding flycatchers. Habitat alterations are considered for all AEIs and for both core and buffer areas. Disturbance activities to flycatchers are considered only for occupied AEIs and only for impacts on core areas. Developed areas (see I.3.1 that have ongoing baseline levels of activities and are not suitable habitat for Southwestern Willow Flycatchers have different restrictions than undeveloped core or buffer areas; therefore, the location of the disturbance activity within the AEI, the occupancy status of the AEI, and the type of activity all affect whether the activity is allowable. AEIs for different species may overlap, and an activity must meet the guidelines of all applicable site plans to be allowable. Protective measures are described as management practices that should be followed when working in AEIs.

4.2 *Definition and Role of Occupancy in AEI Management*

Occupancy simply refers to whether an AEI is occupied during a species' period of sensitivity. For Southwestern Willow Flycatchers, LANL biologists are primarily concerned with protecting the birds from disturbance during the breeding season. Because individuals can colonize suitable habitat, the Southwestern Willow Flycatcher AEI is treated as though it is occupied from May 15 through September 15 or until surveys show an AEI to be unoccupied. Southwestern Willow Flycatcher surveys are conducted during May, June, and July. Because Southwestern Willow Flycatchers migrate south for the winter, the AEI is treated as unoccupied from September 16 to May 14.

The occupancy status of an AEI affects what activities are allowable in the AEI. Although activities that cause habitat alterations are always restricted, disturbance activities are restricted only in occupied AEIs. The Activity Table (Table II-1, Section II.4.5.2) provides dates and levels of disturbance activities allowable in the occupied Southwestern Willow Flycatcher AEI under the guidelines of this site plan. The dates in Table II-1 indicate the period during which the activity is restricted. Contact a LANL biologist to find out the current occupancy status of an AEI (<https://int.lanl.gov/environment/bio/index.shtml>).

4.3 *Introduction to AEI Management Guidelines*

Sections II.4.4 and II.4.5 provide the guidelines for habitat alterations and allowable activities in AEI core and buffer areas. The flowchart (see Figure I-1) provides a quick reference that should be used to determine if a project or activity will affect an AEI and what sections of the site plan need to be consulted. The section on habitat alterations (Section II.4.4) describes what and where habitat alterations are allowed under the guidelines of this site plan. Section II.4.5 and Table II-1 describe what, when, and where disturbance activities are allowed in occupied AEIs under the guidelines of this site plan. If an activity does not meet the restrictions given in the guidelines, the activity must be individually reviewed for ESA compliance. This site plan provides only guidelines for the Southwestern Willow Flycatcher AEI. If an activity is desired in an area that has overlapping AEIs, all applicable site plans must be consulted. Section II.4.6 describes management practices that should be applied when working or considering work in an AEI. LANL biologists are available to help interpret site plans and answer questions (<https://int.lanl.gov/environment/bio/index.shtml>).

4.4 *Definition of and Restrictions on Habitat Alterations*

4.4.1 *Definition of Habitat Alterations*

Habitat alteration includes any action that, over the long term, alters the soil structure, vegetative components necessary to the species, prey quality and quantity, water quality, hydrology, or noise or light levels in undeveloped areas of an AEI. Long term means that the alteration lasts for more than 1 year. Habitat alteration includes any activity that removes vegetative components important to the Southwestern Willow Flycatcher (primarily trees and shrubs). An actual activity may take place outside of the AEI and will be considered habitat alteration if consequences of the activity have effects inside the AEI core.

The habitat components most important to flycatchers include vegetative structure, food quality and quantity, and disturbance levels, including noise and light. The thickets of certain trees and shrubs along wetlands are important because they provide roost sites and a suitable habitat for nesting and foraging.

4.4.2 *Fuels*

Management Practices to Reduce Wildfire Risk

Thinning within undeveloped buffer areas may include trees of any size to achieve 7.6 m (25 ft) spacing between tree crowns; however, clear cutting is not allowed in undeveloped buffer areas. No fuels management practices are allowed in core areas. Habitat alterations, including thinning, are not restricted in developed areas.

4.4.3 Utility Corridors

Habitat alterations, such as cutting down trees that threaten power lines, are allowed within 8 m (26 ft) of either side of an existing utility line in all areas of an AEI (LANL 2020). New utility lines and utility lines that require clearance of a right-of-way greater than 16 m (52 ft) total must be individually reviewed for ESA compliance. Disturbance activities must follow the guidelines given in the Activities Table (Table II-1, Section II.4.5.2) for occupied AEIs.

4.4.4 Restrictions on Habitat Alterations

Habitat alterations other than the utility corridor maintenance described above are not allowed in undeveloped core areas under the guidelines of this site plan. Habitat alteration in buffers is limited. If a project or activity is planned that would alter habitat in an undeveloped core area, it must be individually evaluated for ESA compliance.

4.5 Definition of and Restrictions on Disturbance Activities

4.5.1 Definition of Disturbance Activities

LANL biologists considered five categories of activities that might cause disturbance in an AEI. Most of the categories were first identified in the document “Peregrine Falcon Habitat Management in the National Forests of New Mexico,” prepared for the United States Forest Service (Johnson 1994). Other light production and other noise production were included to provide the most comprehensive list of activities possible, reducing the need for individual review of activities for ESA compliance. The categories of activities are people, vehicles, aircraft, other light production, and other noise production. The impact of explosives detonation on this species is not considered here because no explosives-testing sites are located within 2 km (1.25 mi) of potential nesting habitat. Low, medium, and high levels of impact for these activities are considered here. The following categories of activities are restricted only in AEIs that are classified as occupied.

People—includes any entry of people into an AEI on foot

- Low impact is the presence of three or fewer people per project and duration of 1 day or less during a breeding season.
- Medium impact is the exceedance of either the number of people or the duration criteria.
- High impact is the exceedance of both the number of people and the duration criteria.

Vehicles—includes the entry of any two-axle highway vehicle, all-terrain vehicle, or motorized machinery into an AEI by any route other than a paved road or an improved gravel road

- Low impact is the presence of two or fewer vehicles per project and duration of 1 day or less during a breeding season.
- Medium impact is the exceedance of either the number of vehicles or the duration criteria.
- High impact is the exceedance of both the number of vehicles and the duration criteria.

Aircraft—includes the operation of any aircraft below an elevation of 600 m (2,000 ft) above the highest ground level in the local vicinity

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- Low impact is the presence of one single-engine airplane and duration of 1 day or less during a breeding season.
 - Medium impact is the exceedance of either the number of aircraft or the duration criteria.
 - High impact is the exceedance of both the number of aircraft and the duration criteria.

Any use of helicopters, jet airplanes, and propeller airplanes with two or more engines is classified as medium impact or above, depending on duration.

Other Light Production—includes any activity not previously listed that causes additional light to occur in an AEI core area (e.g., plans for construction of a new building at the edge of a developed area may call for lighting at night to facilitate nighttime work that impacts an undeveloped core area).

- Low impact is the increase of light intensity by up to 0.05 fc and a duration of 1 night or less per project per breeding season.
- Medium impact is the exceedance of either the intensity or duration criteria.
- High impact is the exceedance of both the intensity and duration criteria.

Measurements for increases in light are taken at the AEI core area boundary closest to the light source if the source is outside the core and at 10 m (33 ft) from the source if the source is inside the core. Light measurements for developed areas are taken at the edge of the developed area if the developed area is within an AEI core or at the closest core boundary if the developed area is outside of an AEI core.

Other Noise Production—includes any activity not previously listed except for explosives detonation that causes additional noise to occur in an AEI. For example, operation of machinery causes noise.

- Low impact is increasing noise levels in an AEI core by 6 dB(A) or less for 1 day or less per project per breeding season.
- Medium impact is the exceedance of either the level or the duration criteria.
- High impact is the exceedance of both the level and the duration criteria.

Measurements for increases in noise are taken at the AEI core boundary closest to the noise source if the source is outside the core and at 10 m (33 ft) from the source if the source is inside the core. Noise measurements for developed areas are taken at the edge of the developed area if the developed area is within an AEI core or at the closest core boundary if the developed area is outside of an AEI core.

4.5.2 Activity Table

The dates shown in the Activity Table (Table III-1) are the dates between which the activity in the row is restricted under the guidelines of this site plan. Disturbance activities are of concern only when Southwestern Willow Flycatchers occupy an AEI. The AEI is always considered occupied between May 15 and September 15 or until surveys show the AEI to be unoccupied. The Southwestern Willow Flycatcher AEI is always considered unoccupied between September 16 and May 14, when flycatchers have migrated for the winter. For occupancy status of an AEI after completion of surveys, contact a LANL biologist (<https://int.lanl.gov/environment/bio/index.shtml>).

Table III-1. Restrictions on Activities in Undeveloped Occupied

| Levels of Impact | Core | Buffer |
|-------------------------------------|------------------------|---------------------|
| People | | |
| Low | No Restrictions | No Restrictions |
| Medium | May 15 to August 15 | No Restrictions |
| High | May 15 to September 15 | No Restrictions |
| Vehicles | | |
| Low | May 15 to September 15 | No Restrictions |
| Medium | May 15 to September 15 | No Restrictions |
| High | May 15 to September 15 | No Restrictions |
| Aircraft | | |
| Low | No Restrictions | No Restrictions |
| Medium | May 15 to August 15 | May 15 to August 15 |
| High | May 15 to September 15 | May 15 to August 15 |
| Other Light/Noise Production | | |
| Low | May 15 to September 15 | No Restrictions* |
| Medium | May 15 to September 15 | No Restrictions* |
| High | May 15 to September 15 | No Restrictions* |

*Noise or light production in the buffer is restricted if the activity would violate core area restriction on noise or light.

4.6 Protective Measures

This section provides a list of management practices to apply in the AEI.

- No wetland vegetation will be removed outside of developed areas.
- Employ appropriate erosion and runoff controls to reduce soil loss.
- Avoid unnecessary disturbance to vegetation (e.g., excessive parking areas or equipment storage areas, off-road travel, materials storage areas, crossing of streams or washes).
- Avoid removal of vegetation along drainage systems and stream channels.
- Avoid all vegetation removals not absolutely necessary.
- Appropriate erosion controls must be put in place and periodically checked throughout the life of any projects.
- Revegetate all exposed soils as soon as feasible after disturbance to minimize erosion.

5.0 Southwestern Willow Flycatcher AEI Description

5.1 Pajarito Canyon Southwestern Willow Flycatcher AEI

5.1.1 Allowable Habitat Alteration in the Buffer Area

Because the purpose of the buffer area is to help maintain the core area as suitable Southwestern Willow Flycatcher habitat, habitat alteration in the buffer area will be extremely limited. Restrictions on habitat alteration are relaxed in two areas:

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- The mesa top of Mesita del Buey. This mesa top can be developed if restrictions on impacts to the core area are met.
 - Pajarito Road within the AEI. Mowing of upland vegetation is allowed up to 5 m (15 ft) from Pajarito Road or to the fence if the fence is within 9 m (30 ft). Vegetation must cover the roadsides to prevent sediment runoff, so mowed plants should be at least 5 cm (2 in) high. LANL biologists encourage the growth of willow throughout the AEI—even the area along Pajarito Road—to enhance habitat. If it is absolutely necessary to remove new willow growth (i.e., to improve visibility for human safety) within this area, LANL biologists recommend that only willows at or above the level of the roadway surface be mowed.

IV. AREA OF ENVIRONMENTAL INTEREST SITE PLAN FOR THE JEMEZ MOUNTAINS SALAMANDER

1.0 Species Description—Jemez Mountains Salamander

1.1 Status

In 2006, the Jemez Mountains Salamander was listed in New Mexico as endangered under the Wildlife Conservation Act of New Mexico (NMDGF 2006). In September 2012, the USFWS proposed the Jemez Mountains Salamander as endangered under the ESA (77 FR 56481), and the final listing as endangered occurred on September 10, 2013 (78 FR 55599).

1.2 General Biology

The Jemez Mountains Salamander is endemic to the Jemez Mountains of north-central New Mexico and is found in Los Alamos, Rio Arriba, and Sandoval counties (Stebbins and Riemer 1950). It is one of two endemic plethodontid salamanders that occurs in New Mexico, predominantly at elevations between 2,130 to 3,430 m (6,988 to 11,254 ft) in mixed-conifer forest with greater than 50 percent canopy cover that consists mainly of Douglas fir (*Pseudotsuga menziesii* [Mirb.] Franco), blue spruce (*Picea pungens* Engelm.), Engelmann spruce (*Picea engelmannii* Parry ex Engelm.), white fir (*Abies concolor* [Gord. & Glend.] Lindl. ex Hildebr.), limber pine (*Pinus flexilis* James), ponderosa pine, and quaking aspen (*Populus tremuloides* Michx.). The ground surface in forest areas has (a) moderate-to-high volumes of large fallen trees and other woody debris, especially coniferous logs at least 25 cm (10 in) in diameter, particularly Douglas fir, which are in contact with the soil in varying stages of decay from freshly fallen to nearly fully decomposed; or (b) structural features, such as rocks, bark, and moss mats, that provide the species with food and cover. Underground habitat in forest or meadow areas contains interstitial spaces provided by (a) igneous rock with fractures or loose rocky soils, (b) rotted tree root channels, or (c) burrows of rodents or large invertebrates (Degenhardt et al. 1996; 78 FR 9876).

Plethodontid salamanders, which lack both lungs and gills, breathe through the mucous membranes in their mouth and throat and through their moist skin. The Jemez Mountains Salamander is completely terrestrial and does not use standing surface water for any life stage (77 FR 56481). Present in its habitat year-round, the Jemez Mountains Salamander spends most of its life underground but can be found on the surface when conditions are warm and wet, approximately July through October. During this time, the Jemez Mountains Salamander can be found under rocks, bark, and moss mats, and inside and under logs (Ramotnik 1986, Everett 2003). The Jemez Mountains Salamander eats invertebrates, including ants, mites, and beetles, and is thought to lay its eggs underground (78 FR 9876).

1.3 Threats

Principal threats to habitat include historical fire exclusion and suppression and severe wildland fires; forest composition and structure conversions; post-fire rehabilitation; forest and fire management; roads, trails, and habitat fragmentation; recreation; and disease (77 FR 56482).

2.0 Impact of Human Activities

2.1 Introduction

Primary threats to the Jemez Mountains Salamander on LANL property are impacts to habitat quality or destruction of individual salamanders caused by LANL or Los Alamos County operations. Forested LANL property is also subject to impacts from severe wildland fire and wildfire suppression.

2.2 Impacts on Habitat Quality

2.2.1 Development

Property at LANL varies from remote, isolated land to heavily developed and/or industrialized. Most of the large developed areas at LANL are found on mesa tops, generally in the northern and western portion of LANL. The areas of Jemez Mountains Salamander habitat currently most impacted by development occur in Los Alamos Canyon. A secondary paved road (West Road) in the bottom of the canyon exits the canyon on the north-facing slope through Jemez Mountains Salamander habitat. The canyon bottom also contains a recreational ice rink operated by Los Alamos County on an inholding owned by Los Alamos County. Development that reduces the occurrence of primary constituent elements of Jemez Mountains Salamander in core habitat would likely have a negative impact on the species.

2.2.2 Pedestrians and Vehicles

Many canyon bottoms and mesa tops at LANL have dirt roads traversing them. Most of these roads are gated; however, many of these roads are accessible to LANL employees and the public on foot or by bicycle. Some areas, such as Los Alamos Canyon, are frequently used by hikers and dog owners on active and historic trails that traverse the canyon, through Jemez Mountains Salamander habitat in places. Maintenance of roads and trails in the habitat may have a negative impact on the species.

2.2.3 Severe Wildland Fire and Wildfire Suppression

Stand-replacing wildfires significantly change forest composition and structure and reduce canopy cover. Even ground wildfires could reduce the volume of fallen logs and large woody debris. Large areas of historic Jemez Mountains Salamander habitat have been impacted by stand-replacing wildfires associated with current forest stocking conditions, drought, and high temperatures (77 FR 56482). Forested habitats on LANL property are also subject to severe wildland fires. To mitigate wildfire risks, some areas of LANL have been treated for fuels reduction and creation of fuel breaks both pre-emptively and during active wildfire suppression. Both wildfires and wildfire suppression activities can negatively impact the primary constituent elements of Jemez Mountains Salamander core habitat.

2.3 Impacts on Individual Salamanders

2.3.1 Disease

The amphibian pathogenic fungus *Batrachochytrium dendrobatidis* (Bd) was found in a wild-caught Jemez Mountains Salamander in 2003 (Cummer et al. 2005) on the east side of the species' range and again in another Jemez Mountains Salamander in 2010 on the west side of the species' range (77 FR 56482). Bd causes the disease chytridiomycosis, whereby the Bd fungus attacks keratin in amphibians. In adult amphibians, keratin primarily occurs in the skin. The symptoms of chytridiomycosis can include

sloughing of skin, lethargy, morbidity, and death. Chytridiomycosis has been linked with worldwide amphibian declines, die-offs, and extinctions, possibly in association with climate change (Pounds et al. 2006). Chytridiomycosis could be a threat to the Jemez Mountains Salamander because this disease is a threat to many other species of amphibians, and the pathogen has been detected in the Jemez Mountains Salamander (77 FR 56482).

As part of a cooperative study with the New Mexico Department of Game and Fish between 2007 and 2013, various amphibian species, including the canyon tree frog (*Hyla arenicolor*), western chorus frog (*Pseudacris triseriata*), Woodhouse's toad (*Anaxyrus woodhousii*), tiger salamander (*Ambystoma tigrinum*), and Jemez Mountains Salamander were tested for Bd infection at LANL. To date, all sampling has been negative for Bd infection (Fresquez et al. 2013; B. Thompson, personal communication, January 2022).

2.3.2 Destruction of Individual Salamanders

During periods of the year when Jemez Mountains Salamanders are on the soil surface, when conditions are warm and wet (generally July to October), they are vulnerable to injury and mortality from soil-disturbing activities, including operation of heavy equipment in core habitat. They also are at risk to be found and collected by people.

3.0 AEI General Description for the Jemez Mountains Salamander

The AEI consists of two areas—a core area and a buffer area. The core habitat is defined as suitable habitat where the Jemez Mountains Salamander occurs or could occur at LANL. The core habitat consists of sections of north-facing slope that contain the required microhabitat to support the Jemez Mountains Salamander. The buffer area is 100 m (328 ft) wide, extending outward from the edge of the core area.

3.1 Method for Identifying a Jemez Mountains Salamander AEI

The first step in identifying potential Jemez Mountains Salamander AEIs at LANL was to use a GIS to model habitat. Early modeling efforts by Hathcock (2008) identified areas of potential habitat, and that model was further refined. The following parameters were modeled in the GIS:

- Elevation: 2,150 m (7,000 ft) and above
- Slope: Greater than 20 degrees
- Aspect: north-facing +/- 20 degrees
- Land cover: Mixed conifer
- Land use: Undeveloped
- Modeled habitat is selected only if it is greater than five contiguous 30 × 30 m (98 × 98 ft) pixels in size

Once this habitat layer was developed, a second layer was modeled that examined the level of shade in the habitat, also known as an illumination index. Because the Jemez Mountains Salamander needs cool moist conditions, an illumination index model would further highlight areas where this habitat type could occur or further reinforce the areas selected by the GIS modeling. The illumination index describes the amount and extent of solar radiation that reaches the Earth's surface at a given point, taking into account

the topography that could cast shadows. The illumination model was developed using the 5 m (16 ft) resolution digital elevation model hillshade and using the Surface toolbox in ArcToolbox (Environmental Science Research Institute, Redlands, California) using the highest height of the sun on June 21 at 1:00 p.m., altitude of 74.4 and Azimuth of 178.4, when the sun would be at its maximum height. These procedures were based on work done by Reilly et al. (2009).

Once this modeling was complete, LANL biologists performed field validation to verify the suitability of the modeled habitat. The goal was to verify that mixed conifer was still the dominant cover class in the selected area. The GIS analysis used data from a landcover map created by McKown et al. (2003). Changes in habitat from fire and extreme drought effects have occurred since this landcover map was published. Because LANL is on the extreme edge of Jemez Mountains Salamander lower elevational range, a key component in this part of its range is soil moisture content. During field validation, evidence of a moist mixed conifer habitat versus a dry mixed conifer habitat was noted. One of the key indicators used to delimit areas of moist versus dry mixed conifer during the field validation was the presence of white fir (Evans et al. 2011) combined with a high canopy cover.

Field validation of the model occurred in May 2013, or decisions were based on earlier field visits to the sites from other projects. Each field validation consisted of LANL biologists walking down all of the modeled habitat polygons to look for the presence of indicator features. If a polygon of modeled habitat contained white fir, indicating a moist, wet conifer-type habitat, a high canopy closure, and other signs of high habitat quality such as dead logs, moss, or other areas that could be used as cover by the Jemez Mountains Salamander, then the polygon was marked for retention in the final core habitat. Polygons that did not contain the necessary habitat requirements were omitted.

After the field validation was complete, the final core habitat boundaries were hand-digitized using ArcGIS (Environmental Science Research Institute, Redlands, California) by LANL biologists in and around the validated modeled polygon and areas between polygons, if appropriate. The final identified core habitat at LANL occurs on the north-facing slopes of canyons. Toward the rim of the canyon, the core boundaries end where the mixed conifer ends. In the canyon bottoms, the core boundary extends to the edge of the stream channel. The upstream and downstream core boundaries end where the mixed conifer ends. A buffer habitat was extended around the core to a distance of 100 m (328 ft) outward. The LANL Fenton Hill satellite facility in the Jemez Mountains off New Mexico Highway 126 is on land leased to DOE by the Santa Fe National Forest. The entire footprint is considered to be developed core habitat for the Jemez Mountains Salamander because proposed critical habitat is adjacent to the facility.

3.2 Location and Number of Jemez Mountains Salamander AEIs

The identified Jemez Mountains Salamander core habitats were grouped by canyon system into AEIs, which contain contiguous and noncontiguous habitat areas. The largest contiguous section of habitat at LANL is in Los Alamos Canyon. Two noncontiguous areas of habitat are located in Two-mile Canyon, four in Pajarito Canyon, one contiguous area in Cañon de Valle, and the entire Fenton Hill footprint.

4.0 AEI Management

4.1 Overview

This AEI management section provides guidelines for LANL operations to reduce or eliminate the threats to the Jemez Mountains Salamander from habitat alterations that reduce habitat quality. Habitat

alterations are considered for all AEIs and for both core and buffer areas. Developed areas that have ongoing baseline levels of activities and are not suitable habitat for Jemez Mountains Salamander have different restrictions than undeveloped core or buffer areas. AEIs for different species may overlap, and an activity must meet the guidelines of all applicable site plans to be allowable. Protective measures are described as management practices that should be followed when working in AEIs.

4.2 Definition and Role of Occupancy in AEI Management

Occupancy simply refers to whether an AEI is occupied by the Jemez Mountains Salamander. The Los Alamos Canyon AEI is known to be occupied based on past surveys. Surveys for the Jemez Mountains Salamander are known to have a very low detection rate for occupied areas, so at LANL, all AEIs are assumed to be occupied at all times. If needed, site-specific surveys will be conducted by federally permitted LANL biologists.

4.3 Definition and Role of Developed Areas in AEI Management

Developed areas include all building structures, paved roads, improved gravel roads, and paved and unpaved parking lots. The majority of Jemez Mountains Salamander core habitat is in undeveloped areas except for the satellite facility at Fenton Hill and a small amount of habitat in Los Alamos Canyon where West Road crosses the habitat. Generally, developed areas will not have restrictions; however, some of the undeveloped sections within the footprint of Fenton Hill may have restrictions because they could contain Jemez Mountains Salamanders when they move to the surface between July and October. Any project that occurs within developed core habitat will be evaluated by LANL biologists for ESA compliance.

4.4 General Description of Core and Buffer Areas and Allowable Area Development

The purpose of buffer areas is to protect core areas from habitat degradation. The current levels of development in buffer and core areas represent baseline conditions for this site plan. No further development is allowed in the core area under the guidelines of this site plan. Any development in a buffer area will be reviewed by LANL biologists to ensure that there are no impacts to the core habitat.

4.5 Emergency Actions

Managers may activate emergency actions if safety and/or property is immediately threatened by something occurring within an AEI (e.g., wildfire, water line breakage). Contact a LANL biologist (<https://int.lanl.gov/environment/bio/index.shtml>), the Environmental Stewardship Group (505-665-8855), or the DOE/NNSA Los Alamos Field Office (505-667-7014) as soon as possible. If the emergency occurs outside of regular business hours, contact the Emergency Operations Support Center (505-667-2400); this office will then communicate with the appropriate LANL and DOE/NNSA Field Office personnel.

4.6 Introduction to AEI Management Guidelines

Section 4.7 provides the guidelines for habitat alterations and allowable activities in AEI core and buffer areas. It describes what and where habitat alterations are allowed under the guidelines of this site plan. If an activity does not meet the restrictions given in the guidelines, the activity must be individually reviewed for ESA compliance. This site plan provides only guidelines for the Jemez Mountains

Salamander AEIs. If an activity is desired in an area that has overlapping AEIs, all applicable site plans must be consulted. AEI maps show the location of all AEIs in an area. LANL biologists are available to help interpret site plans and answer questions (<https://int.lanl.gov/environment/bio/index.shtml>).

4.7 Definition of and Restrictions on Habitat Alterations

4.7.1 Definition of Habitat Alterations

Habitat alteration includes any action that alters the soil structure, vegetative components necessary to the species, water quality, or hydrology in undeveloped areas of an AEI. An actual activity may take place outside of the AEI and will be considered habitat alteration if consequences of the activity have effects inside the AEI core. Habitat alterations would also include soil pits for soil samples deeper than 15 cm (6 in.) using either hand or mechanized augers. Any activity that might disturb the soil will need to be reviewed by LANL biologists.

The habitat components most important to the Jemez Mountains Salamander include soil structure and vegetative structure. The forest structure within an area designated as a Jemez Mountains Salamander AEI is important because it provides the necessary moist, cool microclimate.

4.7.2 Fuels Management Practices to Reduce Wildfire Risk

One of the primary threats to the Jemez Mountains Salamander is wildfire (77 FR 56482), but they also require habitat with a high canopy cover, which makes fuels reduction challenging. Within undeveloped core areas, thinning trees to a level of 80 percent canopy cover or higher is approved. Trees may not be thinned below 80 percent canopy cover without further ESA review by LANL biologists. Large logs on the ground should be left in place and not chipped. Understory thinning that does not reduce total canopy cover below 80 percent is permitted. Large trees that are felled should be left as large logs on the ground. Smaller trees and understory shrubs that may be thinned should be dispersed and left onsite to aid in soil moisture retention. Thinning activities should not occur during the rainy season between July to October when the Jemez Mountains Salamander is found on the surface.

In buffer areas, thinning of trees may occur to the current LANL-approved prescription level (LAAO 2000). LANL biologists are available to provide guidance and mark trees for thinning (<https://int.lanl.gov/environment/bio/index.shtml>).

4.7.3 Utility Corridors

Habitat alterations, such as cutting down trees that threaten power lines, are allowed within 8 m (26 ft) of either side of an existing electrical utility line at LANL under existing guidelines and engineering controls (LANL 2019). This level is approved in all areas of an AEI. New utility lines and utility lines that require clearance of a right-of-way greater than 16 m (52 ft) total in core habitat must be individually reviewed for ESA compliance.

4.7.4 Restrictions on Habitat Alterations

Habitat alterations other than the fuels management practices and utility corridor maintenance described above are not allowed in undeveloped core areas under the guidelines of this site plan. If a project or activity is planned that would alter habitat in an undeveloped core area, it must be individually evaluated

for ESA compliance. Habitat alterations in buffer areas must be reviewed by LANL biologists to ensure that there are no impacts to core habitat.



V. ACRONYMS AND ABBREVIATIONS

| Acronym | Definition |
|---------|---|
| ac | acre |
| AEI | area of environmental interest |
| Bd | Batrachochytrium dendrobatidis (Chytrid Fungus) |
| BMP | Best management practices |
| cm | centimeter |
| DARHT | Dual-Axis Radiographic Hydrodynamic Test Facility |
| dB | decibel |
| dB(A) | A-weighted decibel |
| dB(C) | C-weighted decibel |
| DDT | (dichloro-diphenyl-trichloroethane) |
| DOE | U.S. Department of Energy |
| ESA | Endangered Species Act of 1973 |
| fc | foot -candles |
| FR | Federal Register |
| ft | feet |
| g | gram |
| GIS | geographic information system |
| ha | hectare |
| HMP | Threatened and Endangered Species Habitat Management Plan |
| HVAC | heating, ventilation, and air conditioning |
| in. | inch |
| kg | kilogram |
| LANL | Los Alamos National Laboratory |
| m | meter |
| mi | mile |
| NEPA | National Environmental Policy Act |
| NNSA | National Nuclear Security Administration |
| oz | ounce |
| PCBs | polychlorinated biphenyls |
| TNT | trinitrotoluene(2,4,6-) |
| USFWS | U.S. Fish and Wildlife Service |

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Appendix A: Supplemental Information

Table A-1. Percentage of Each Food Type Found in Mexican Spotted Owl Food Remains at LANL

| Species | Relative Abundance |
|------------------------|--------------------|
| <i>Neotoma</i> spp. | 26.22 |
| <i>Peromyscus</i> spp. | 10.22 |
| <i>Microtus</i> spp. | 4.44 |
| Gophers | 4.89 |
| Bats | 5.78 |
| Chipmunks | 0.89 |
| Rabbits | 12.89 |
| Shrews | 1.33 |
| Small Mammal | 1.33 |
| Medium Mammal | 1.78 |
| Medium Bird | 8.00 |
| Small Bird | 4.89 |
| Nocturnal Birds | 0.89 |
| Reptiles | 4.89 |
| Arthropods | 11.56 |

Table A-2. Preliminary Light Measurements (in fc) for the Mexican Spotted Owl Site Plan

| | | Distance from Source | | | |
|----|-----------------------|----------------------|------|------|------|
| | Source (street light) | 5 m | 10 m | 15 m | 20 m |
| fc | 3.70 | 2.28 | 1.20 | 0.62 | 0.32 |

Appendix A: Most recent map of all AEIs at LANL

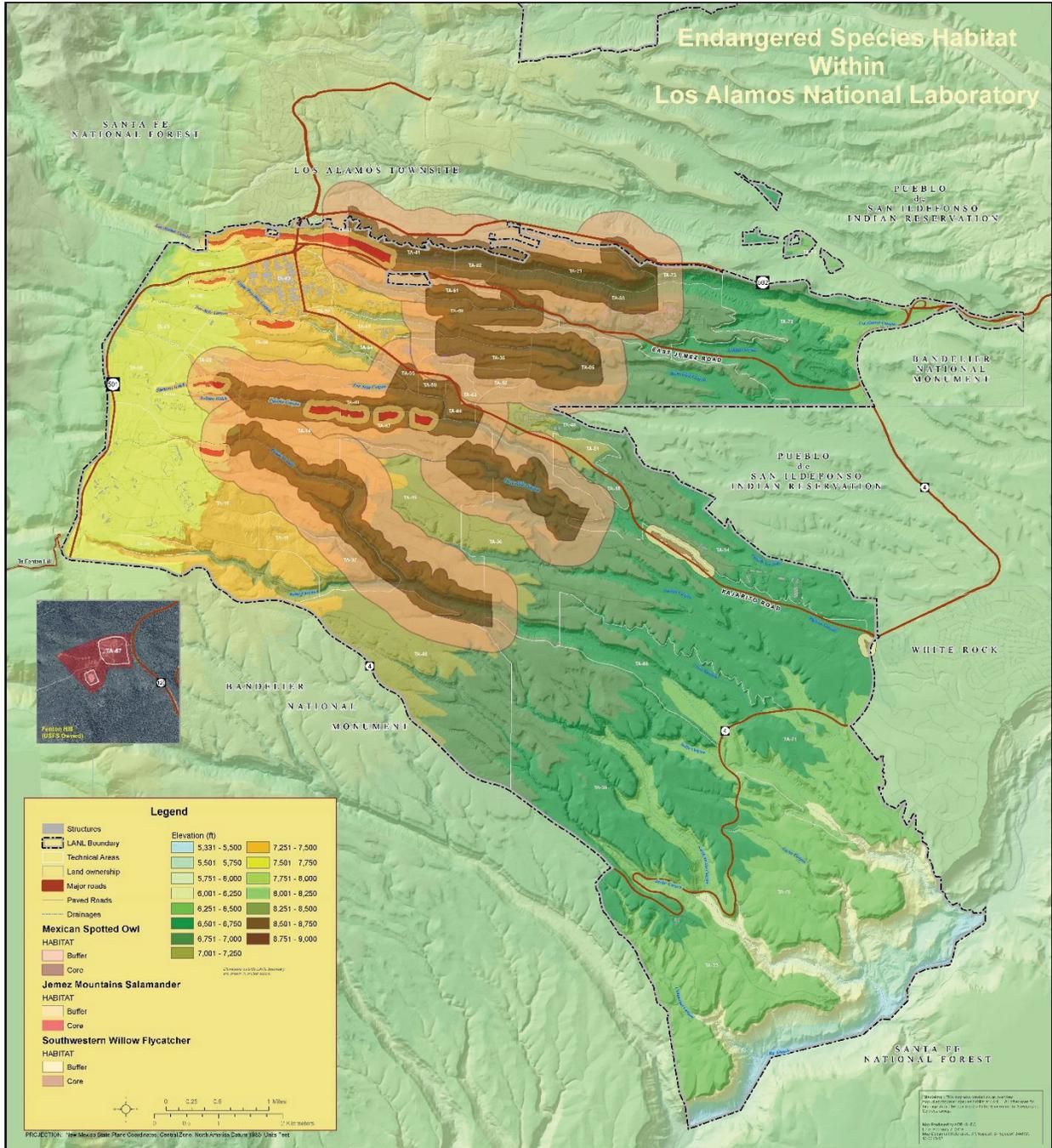


Figure A-1. Most recent map of all AEIs at LANL

ATTACHMENT 14: MSGP IPAC TRUST RESOURCES REPORT

IPaC Information for Planning and Consultation U.S. Fish & Wildlife Service

IPaC resource list

This report is an automatically generated list of species and other resources such as critical habitat (collectively referred to as *trust resources*) under the U.S. Fish and Wildlife Service's (USFWS) jurisdiction that are known or expected to be on or near the project area referenced below. The list may also include trust resources that occur outside of the project area, but that could potentially be directly or indirectly affected by activities in the project area. However, determining the likelihood and extent of effects a project may have on trust resources typically requires gathering additional site-specific (e.g., vegetation/species surveys) and project-specific (e.g., magnitude and timing of proposed activities) information.

Below is a summary of the project information you provided and contact information for the USFWS office(s) with jurisdiction in the defined project area. Please read the introduction to each section that follows (Endangered Species, Migratory Birds, USFWS Facilities, and NWI Wetlands) for additional information applicable to the trust resources addressed in that section.

Location

Los Alamos, Sandoval, and Santa Fe counties, New Mexico



Local office

New Mexico Ecological Services Field Office

☎ (505) 346-2525

📠 (505) 346-2542

2105 Osuna Road Ne
Albuquerque, NM 87113-1001

<http://www.fws.gov/southwest/es/NewMexico/>

http://www.fws.gov/southwest/es/ES_Lists_Main2.html

NOT FOR CONSULTATION

Endangered species

This resource list is for informational purposes only and does not constitute an analysis of project level impacts.

The primary information used to generate this list is the known or expected range of each species. Additional areas of influence (AOI) for species are also considered. An AOI includes areas outside of the species range if the species could be indirectly affected by activities in that area (e.g., placing a dam upstream of a fish population even if that fish does not occur at the dam site, may indirectly impact the species by reducing or eliminating water flow downstream). Because species can move, and site conditions can change, the species on this list are not guaranteed to be found on or near the project area. To fully determine any potential effects to species, additional site-specific and project-specific information is often required.

Section 7 of the Endangered Species Act **requires** Federal agencies to "request of the Secretary information whether any species which is listed or proposed to be listed may be present in the area of such proposed action" for any project that is conducted, permitted, funded, or licensed by any Federal agency. A letter from the local office and a species list which fulfills this requirement can **only** be obtained by requesting an official species list from either the Regulatory Review section in IPaC (see directions below) or from the local field office directly.

For project evaluations that require USFWS concurrence/review, please return to the IPaC website and request an official species list by doing the following:

1. Draw the project location and click CONTINUE.
2. Click DEFINE PROJECT.
3. Log in (if directed to do so).
4. Provide a name and description for your project.
5. Click REQUEST SPECIES LIST.

Listed species¹ and their critical habitats are managed by the [Ecological Services Program](#) of the U.S. Fish and Wildlife Service (USFWS) and the fisheries division of the National Oceanic and Atmospheric Administration (NOAA Fisheries²).

Species and critical habitats under the sole responsibility of NOAA Fisheries are **not** shown on this list. Please contact [NOAA Fisheries](#) for [species under their jurisdiction](#).

-
1. Species listed under the [Endangered Species Act](#) are threatened or endangered; IPaC also shows species that are candidates, or proposed, for listing. See the [listing status page](#) for more information. IPaC only shows species that are regulated by USFWS (see FAQ).
 2. [NOAA Fisheries](#), also known as the National Marine Fisheries Service (NMFS), is an

office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

The following species are potentially affected by activities in this location:

Mammals

| NAME | STATUS |
|---|-------------------|
| <p>New Mexico Meadow Jumping Mouse <i>Zapus hudsonius luteus</i> Wherever found There is final critical habitat for this species. The location of the critical habitat is not available. https://ecos.fws.gov/ecp/species/7965</p> | Endangered |

Birds

| NAME | STATUS |
|--|-------------------|
| <p>Mexican Spotted Owl <i>Strix occidentalis lucida</i> Wherever found There is final critical habitat for this species. Your location overlaps the critical habitat. https://ecos.fws.gov/ecp/species/8196</p> | Threatened |
| <p>Southwestern Willow Flycatcher <i>Empidonax traillii extimus</i> Wherever found There is final critical habitat for this species. The location of the critical habitat is not available. https://ecos.fws.gov/ecp/species/6749</p> | Endangered |
| <p>Yellow-billed Cuckoo <i>Coccyzus americanus</i> There is proposed critical habitat for this species. The location of the critical habitat is not available. https://ecos.fws.gov/ecp/species/3911</p> | Threatened |

Amphibians

| NAME | STATUS |
|------|--------|
|------|--------|

Jemez Mountains Salamander *Plethodon neomexicanus* Endangered

Wherever found

There is **final** critical habitat for this species. The location of the critical habitat is not available.

<https://ecos.fws.gov/ecp/species/4095>

Fishes

| NAME | STATUS |
|---|------------|
| Rio Grande Silvery Minnow <i>Hybognathus amarus</i> There is final critical habitat for this species. The location of the critical habitat is not available. https://ecos.fws.gov/ecp/species/1391 | Endangered |

Critical habitats

Potential effects to critical habitat(s) in this location must be analyzed along with the endangered species themselves.

This location overlaps the critical habitat for the following species:

| NAME | TYPE |
|---|-------|
| Mexican Spotted Owl <i>Strix occidentalis lucida</i> https://ecos.fws.gov/ecp/species/8196#crithab | Final |

Migratory birds

Certain birds are protected under the Migratory Bird Treaty Act¹ and the Bald and Golden Eagle Protection Act².

Any person or organization who plans or conducts activities that may result in impacts to migratory birds, eagles, and their habitats should follow appropriate regulations and consider implementing appropriate conservation measures, as described [below](#).

1. The [Migratory Birds Treaty Act](#) of 1918.
2. The [Bald and Golden Eagle Protection Act](#) of 1940.

Additional information can be found using the following links:

- Birds of Conservation Concern <http://www.fws.gov/birds/management/managed->

[species/](#)

[birds-of-conservation-concern.php](#)

- Measures for avoiding and minimizing impacts to birds <http://www.fws.gov/birds/management/project-assessment-tools-and-guidance/conservation-measures.php>
- Nationwide conservation measures for birds <http://www.fws.gov/migratorybirds/pdf/management/nationwidestandardconservationmeasures.pdf>

The birds listed below are birds of particular concern either because they occur on the [USFWS Birds of Conservation Concern](#) (BCC) list or warrant special attention in your project location. To learn more about the levels of concern for birds on your list and how this list is generated, see the FAQ [below](#). This is not a list of every bird you may find in this location, nor a guarantee that every bird on this list will be found in your project area. To see exact locations of where birders and the general public have sighted birds in and around your project area, visit the [E-bird data mapping tool](#) (Tip: enter your location, desired date range and a species on your list). For projects that occur off the Atlantic Coast, additional maps and models detailing the relative occurrence and abundance of bird species on your list are available. Links to additional information about Atlantic Coast birds, and other important information about your migratory bird list, including how to properly interpret and use your migratory bird report, can be found [below](#).

For guidance on when to schedule activities or implement avoidance and minimization measures to reduce impacts to migratory birds on your list, click on the PROBABILITY OF PRESENCE SUMMARY at the top of your list to see when these birds are most likely to be present and breeding in your project area.

NAME

BREEDING SEASON (IF A BREEDING SEASON IS INDICATED FOR A BIRD ON YOUR LIST, THE BIRD MAY BREED IN YOUR PROJECT AREA SOMETIME WITHIN THE TIMEFRAME SPECIFIED, WHICH IS A VERY LIBERAL ESTIMATE OF THE DATES INSIDE WHICH THE BIRD BREEDS ACROSS ITS ENTIRE RANGE. "BREEDS ELSEWHERE" INDICATES THAT THE BIRD DOES NOT LIKELY BREED IN YOUR PROJECT AREA.)

- Bald Eagle** *Haliaeetus leucocephalus* Breeds Dec 1 to Aug 31
This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.
<https://ecos.fws.gov/ecp/species/1626>
- Black-chinned Sparrow** *Spizella atrogularis* Breeds Apr 15 to Jul 31
This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.
<https://ecos.fws.gov/ecp/species/9447>
- Brewer's Sparrow** *Spizella breweri* Breeds May 15 to Aug 10
This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA
<https://ecos.fws.gov/ecp/species/9291>
- Golden Eagle** *Aquila chrysaetos* Breeds Jan 1 to Aug 31
This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA
<https://ecos.fws.gov/ecp/species/1680>
- Grace's Warbler** *Dendroica graciae* Breeds May 20 to Jul 20
This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA
- Gray Vireo** *Vireo vicinior* Breeds May 10 to Aug 20
This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.
<https://ecos.fws.gov/ecp/species/8680>
- Lesser Yellowlegs** *Tringa flavipes* Breeds elsewhere
This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.
<https://ecos.fws.gov/ecp/species/9679>
- Lewis's Woodpecker** *Melanerpes lewis* Breeds Apr 20 to Sep 30
This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.
<https://ecos.fws.gov/ecp/species/9408>

Long-billed Curlew *Numenius americanus*

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

<https://ecos.fws.gov/ecp/species/5511>

Breeds Apr 1 to Jul 31

Long-eared Owl *asio otus*

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

<https://ecos.fws.gov/ecp/species/3631>

Breeds Mar 1 to Jul 15

Olive-sided Flycatcher *Contopus cooperi*

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

<https://ecos.fws.gov/ecp/species/3914>

Breeds May 20 to Aug 31

Pinyon Jay *Gymnorhinus cyanocephalus*

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

<https://ecos.fws.gov/ecp/species/9420>

Breeds Feb 15 to Jul 15

Rufous Hummingbird *selasphorus rufus*

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

<https://ecos.fws.gov/ecp/species/8002>

Breeds elsewhere

Virginia's Warbler *Vermivora virginiae*

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

<https://ecos.fws.gov/ecp/species/9441>

Breeds May 1 to Jul 31

Willet *Tringa semipalmata*

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

Breeds elsewhere

Willow Flycatcher *Empidonax traillii*

This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA

<https://ecos.fws.gov/ecp/species/3482>

Breeds May 20 to Aug 31

Probability of Presence Summary

The graphs below provide our best understanding of when birds of concern are most

likely to be present in your project area. This information can be used to tailor and schedule your project activities to avoid or minimize impacts to birds. Please make sure you read and understand the FAQ "Proper Interpretation and Use of Your Migratory Bird Report" before using or attempting to interpret this report.

Probability of Presence (■)

Each green bar represents the bird's relative probability of presence in the 10km grid cell(s) your project overlaps during a particular week of the year. (A year is represented as 12 4-week months.) A taller bar indicates a higher probability of species presence. The survey effort (see below) can be used to establish a level of confidence in the presence score. One can have higher confidence in the presence score if the corresponding survey effort is also high.

How is the probability of presence score calculated? The calculation is done in three steps:

1. The probability of presence for each week is calculated as the number of survey events in the week where the species was detected divided by the total number of survey events for that week. For example, if in week 12 there were 20 survey events and the Spotted Towhee was found in 5 of them, the probability of presence of the Spotted Towhee in week 12 is 0.25.
2. To properly present the pattern of presence across the year, the relative probability of presence is calculated. This is the probability of presence divided by the maximum probability of presence across all weeks. For example, imagine the probability of presence in week 20 for the Spotted Towhee is 0.05, and that the probability of presence at week 12 (0.25) is the maximum of any week of the year. The relative probability of presence on week 12 is $0.25/0.25 = 1$; at week 20 it is $0.05/0.25 = 0.2$.
3. The relative probability of presence calculated in the previous step undergoes a statistical conversion so that all possible values fall between 0 and 10, inclusive. This is the probability of presence score.

To see a bar's probability of presence score, simply hover your mouse cursor over the bar.

Breeding Season (■)

Yellow bars denote a very liberal estimate of the time-frame inside which the bird breeds across its entire range. If there are no yellow bars shown for a bird, it does not breed in your project area.

Survey Effort (|)

Vertical black lines superimposed on probability of presence bars indicate the number of surveys performed for that species in the 10km grid cell(s) your project area overlaps. The number of surveys is expressed as a range, for example, 33 to 64 surveys.

To see a bar's survey effort range, simply hover your mouse cursor over the bar.

No Data (—)

A week is marked as having no data if there were no survey events for that week.

Survey Timeframe

Surveys from only the last 10 years are used in order to ensure delivery of currently relevant information. The exception to this is areas off the Atlantic coast, where bird returns are based on all years of available data, since data in these areas is currently much more sparse.

Tell me more about conservation measures I can implement to avoid or minimize impacts to migratory birds.

[Nationwide Conservation Measures](#) describes measures that can help avoid and minimize impacts to all birds at any location year round. Implementation of these measures is particularly important when birds are most likely to occur in the project area. When birds may be breeding in the area, identifying the locations of any active nests and avoiding their destruction is a very helpful impact minimization measure. To see when birds are most likely to occur and be breeding in your project area, view the Probability of Presence Summary. [Additional measures](#) or [permits](#) may be advisable depending on the type of activity you are conducting and the type of infrastructure or bird species present on your project site.

What does IPaC use to generate the migratory birds potentially occurring in my specified location?

The Migratory Bird Resource List is comprised of USFWS [Birds of Conservation Concern \(BCC\)](#) and other species that may warrant special attention in your project location.

The migratory bird list generated for your project is derived from data provided by the [Avian Knowledge Network \(AKN\)](#). The AKN data is based on a growing collection of [survey, banding, and citizen science datasets](#) and is queried and filtered to return a list of those birds reported as occurring in the 10km grid cell(s) which your project intersects, and that have been identified as warranting special attention because they are a BCC species in that area, an eagle ([Eagle Act](#) requirements may apply), or a species that has a particular vulnerability to offshore activities or development.

Again, the Migratory Bird Resource list includes only a subset of birds that may occur in your project area. It is not representative of all birds that may occur in your project area. To get a list of all birds potentially present in your project area, please visit the [AKN Phenology Tool](#).

What does IPaC use to generate the probability of presence graphs for the migratory birds potentially occurring in my specified location?

The probability of presence graphs associated with your migratory bird list are based on data provided by the [Avian Knowledge Network \(AKN\)](#). This data is derived from a growing collection of [survey, banding, and citizen science datasets](#).

Probability of presence data is continuously being updated as new and better information becomes available. To learn more about how the probability of presence graphs are produced and how to interpret them, go the Probability of Presence Summary and then click on the "Tell me about these graphs" link.

How do I know if a bird is breeding, wintering, migrating or present year-round in my project area?

To see what part of a particular bird's range your project area falls within (i.e. breeding, wintering, migrating or year-round), you may refer to the following resources: [The Cornell Lab of Ornithology All About Birds Bird Guide](#), or (if you are unsuccessful in locating the bird of interest there), the [Cornell Lab of Ornithology Neotropical Birds guide](#). If a bird on your migratory bird species list has a breeding season associated with it, if that bird does occur in your project area, there may be nests present at some point within the timeframe specified. If "Breeds elsewhere" is indicated, then the bird likely does not breed in your project area.

What are the levels of concern for migratory birds?

Migratory birds delivered through IPaC fall into the following distinct categories of concern:

1. "BCC Rangewide" birds are [Birds of Conservation Concern](#) (BCC) that are of concern throughout their range anywhere within the USA (including Hawaii, the Pacific Islands, Puerto Rico, and the Virgin Islands);
2. "BCC - BCR" birds are BCCs that are of concern only in particular Bird Conservation Regions (BCRs) in the continental USA; and
3. "Non-BCC - Vulnerable" birds are not BCC species in your project area, but appear on your list either because of the [Eagle Act](#) requirements (for eagles) or (for non-eagles) potential susceptibilities in offshore areas from certain types of development or activities (e.g. offshore energy development or longline fishing).

Although it is important to try to avoid and minimize impacts to all birds, efforts should be made, in particular, to avoid and minimize impacts to the birds on this list, especially eagles and BCC species of rangewide concern. For more information on conservation measures you can implement to help avoid and minimize migratory bird impacts and requirements for eagles, please see the FAQs for these topics.

Details about birds that are potentially affected by offshore projects

For additional details about the relative occurrence and abundance of both individual bird species and groups of bird species within your project area off the Atlantic Coast, please visit the [Northeast Ocean Data Portal](#). The Portal also offers data and information about other taxa besides birds that may be helpful to you in your project review. Alternately, you may download the bird model results files underlying the portal maps through the [NOAA NCCOS Integrative Statistical Modeling and Predictive Mapping of Marine Bird Distributions and Abundance on the Atlantic Outer Continental Shelf](#) project webpage.

Bird tracking data can also provide additional details about occurrence and habitat use throughout the year, including migration. Models relying on survey data may not include this information. For additional information on marine bird tracking data, see the [Diving Bird Study](#) and the [nanotag studies](#) or contact [Caleb Spiegel](#) or [Pam Loring](#).

What if I have eagles on my list?

If your project has the potential to disturb or kill eagles, you may need to [obtain a permit](#) to avoid violating the Eagle Act should such impacts occur.

Proper Interpretation and Use of Your Migratory Bird Report

The migratory bird list generated is not a list of all birds in your project area, only a subset of birds of priority concern. To learn more about how your list is generated, and see options for identifying what other birds may be in your project area, please see the FAQ "What does IPaC use to generate the migratory birds potentially occurring in my specified location". Please be aware this report provides the "probability of presence" of birds within the 10 km grid cell(s) that overlap your project; not your exact project footprint. On the graphs provided, please also look carefully at the survey effort (indicated by the black vertical bar) and for the existence of the "no data" indicator (a red horizontal bar). A high survey effort is the key component. If the survey effort is high, then the probability of presence score can be viewed as more dependable. In contrast, a low survey effort bar or no data bar means a lack of data and, therefore, a lack of certainty about presence of the species. This list is not perfect; it is simply a starting point for identifying what birds of concern have the potential to be in your project area, when they might be there, and if they might be breeding (which means nests might be present). The list helps you know what to look for to confirm presence, and helps guide you in knowing when to implement conservation measures to avoid or minimize potential impacts from your project activities, should presence be confirmed. To learn more about conservation measures, visit the FAQ "Tell me about conservation measures I can implement to avoid or minimize impacts to migratory birds" at the bottom of your migratory bird trust resources page.

Facilities

National Wildlife Refuge lands

Any activity proposed on lands managed by the [National Wildlife Refuge](#) system must undergo a 'Compatibility Determination' conducted by the Refuge. Please contact the individual Refuges to discuss any questions or concerns.

THERE ARE NO REFUGE LANDS AT THIS LOCATION.

Fish hatcheries

THERE ARE NO FISH HATCHERIES AT THIS LOCATION.

Wetlands in the National Wetlands Inventory

Impacts to [NWI wetlands](#) and other aquatic habitats may be subject to regulation under Section 404 of the Clean Water Act, or other State/Federal statutes.

For more information please contact the Regulatory Program of the local [U.S. Army Corps of Engineers District](#).

Please note that the NWI data being shown may be out of date. We are currently working to update our NWI data set. We recommend you verify these results with a site visit to determine the actual extent of wetlands on site.

This location overlaps the following wetlands:

FRESHWATER EMERGENT WETLAND

[PEM1C](#)

FRESHWATER FORESTED/SHRUB WETLAND

[PSS1A](#)

RIVERINE

[R4SBA](#)

[R4SBC](#)

A full description for each wetland code can be found at the [National Wetlands Inventory website](#)

Data limitations

The Service's objective of mapping wetlands and deepwater habitats is to produce reconnaissance level information on the location, type and size of these resources. The maps are prepared from the analysis of high altitude imagery. Wetlands are identified based on vegetation, visible hydrology and geography. A margin of error is inherent in the use of imagery; thus, detailed on-the-ground inspection of any particular site may result in revision of the wetland boundaries or classification established through image analysis.

The accuracy of image interpretation depends on the quality of the imagery, the experience of the image analysts, the amount and quality of the collateral data and the amount of ground truth verification work conducted. Metadata should be consulted to determine the date of the source imagery used and any mapping problems.

Wetlands or other mapped features may have changed since the date of the imagery or field work. There may be occasional differences in polygon boundaries or classifications between the information depicted on the map and the actual conditions on site.

Data exclusions

Certain wetland habitats are excluded from the National mapping program because of the limitations of aerial imagery as the primary data source used to detect wetlands. These habitats include seagrasses or submerged aquatic vegetation that are found in the intertidal and subtidal zones of estuaries and

nearshore coastal waters. Some deepwater reef communities (coral or tubercid worm reefs) have also been excluded from the inventory. These habitats, because of their depth, go undetected by aerial imagery.

Data precautions

Federal, state, and local regulatory agencies with jurisdiction over wetlands may define and describe wetlands in a different manner than that used in this inventory. There is no attempt, in either the design or products of this inventory, to define the limits of proprietary jurisdiction of any Federal, state, or local government or to establish the geographical scope of the regulatory programs of government agencies. Persons intending to engage in activities involving modifications within or adjacent to wetland areas should seek the advice of appropriate federal, state, or local agencies concerning specified agency regulatory programs and proprietary jurisdictions that may affect such activities.

NOT FOR CONSULTATION

ATTACHMENT 15: EPC-CP-PIP-2101 NPDES MULTI-SECTOR GENERAL PERMIT

EPC-CP-PIP-2101

Revision: 1



Effective Date: 10/20/2021

Next Review Date: 10/20/2024

Environment, Safety, Health, Quality, Safeguards and Security Directorate
Environmental Protection and Compliance Division – Compliance Programs Group
Program Implementation Plan (PIP)

NPDES Multi-Sector General Permit

Document Owner/Subject Matter Expert:

| | | | |
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| Name: Terrill W. Lemke | Organization: EPC-CP | Signature: Signature on File | Date: 10-19-21 |
|---------------------------|-------------------------|---------------------------------|-------------------|

Derivative Classifier: **Unclassified** or _____

| | | | |
|---------------------------|-------------------------|---------------------------------|-------------------|
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|---------------------------|-------------------------|---------------------------------|-------------------|

Approval Signatures:

| | | | |
|---|-------------------------|---------------------------------|-------------------|
| EPC-CP Reviewer: Holly L. Wheeler | Organization: EPC-CP | Signature: Signature on File | Date: 10-20-21 |
| EPC-CP Team Leader: Terrill W. Lemke, Team Leader | Organization: EPC-CP | Signature: Signature on File | Date: 10-19-21 |
| EPC-CP Group Leader: Tautia J. Sandquist, Group Leader | Organization: EPC-CP | Signature: Signature on File | Date: 10-20-21 |

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REVISION HISTORY

| Document Number and Revision | Effective Date | Description of Changes |
|-------------------------------------|-----------------------|--|
| ENV-RCRA-QAPP-MSGP, R0 | 06/03 | New Document. |
| ENV-RCRA-QAPP-MSGP, R1 | 12/05 | Annual review and revision. |
| ENV-RCRA-QAPP-MSGP, R2 | 07/07 | Annual review, incorporated organizational restructure changes. |
| ENV-RCRA-QAPP-MSGP, R3 | 07/09 | Biennial Review and Revision. |
| ENV-RCRA-QAPP-MSGP, R4 | 07/09 | Biennial Review and Revision. |
| ENV-CP-QAPP-MSGP, R5 | 10/13 | Biennial Review and Revision. New format implemented. |
| EPC-CP-PIP-2101, R0 | 01/19/2021 | Initial issue under this document number. It supersedes/replaces ENV-CP-QAPP-MSGP, R5. Changes include revision to the document template, addition of MLs, software requirements, and detail to Section 4.5. |
| EPC-CP-PIP-2101 R1 | 10/20/2021 | Update to procedure numbers and Attachment 2. Deletion of Appendices B, C and D with associated update to text in Section 3.3.2. |

| | | |
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1.0 PURPOSE

This document describes the Program Implementation Plan (PIP) for the National Pollutant Discharge Elimination System (NPDES) Multi-Sector General Permit (MSGP) Program at Los Alamos National Laboratory (LANL or the Laboratory). Performance of the processes and procedures described herein, are in accordance with EPC-CP-QAP-001, *Environmental Compliance Programs Quality Assurance Plan*. This PIP provides detail and context regarding the implementation of those work activities generally described in EPC-CP-QAP-001. Work conducted under this program ensures compliance with the MSGP and the Clean Water Act.

2.0 AUTHORITY AND APPLICABILITY

2.1 Authority

This document is issued under the authority of the Environmental Protection and Compliance Division's Compliance Programs Group Leader to direct the management and operation of the MSGP Program.

2.2 Applicability

This PIP applies to personnel performing work by or for the MSGP Program, including but not limited to Triad National Security, LLC (Triad) employees, subcontractors and suppliers at all tiers (in accordance with subcontract documents), students, guests, and associates.

3.0 PROGRAM SCOPE

The MSGP Program is responsible for compliance oversight of Triad's NPDES MSGP, coordination and performance of institutional MSGP stormwater compliance activities, and developing and implementing institutional standards and policies regarding MSGP stormwater management. EPC-CP is the institutional point of contact regarding MSGP environmental compliance interactions with entities outside of LANL (i.e., regulatory agencies, stakeholders, and the public).

3.1 Requirements

The MSGP Program satisfies requirements contained in the following documents:

- EPC-CP-QAP-001, Section 3.3
- NPDES MSGP
- Title 40 of the Code of Federal Regulations (CFR) Part 136, *Guidelines Establishing Test Procedures for the Analysis of Pollutants*
- Title 20, Chapter 6, Part 4 of the New Mexico Administrative Code (NMAC), *Standards for Interstate and Intrastate Surface Waters*

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3.2 Description of Work Activities

Triad will implement the monitoring requirements specified by the most current NPDES MSGP for industrial activities at LANL. The EPC-CP Storm Water Permitting/Compliance Team oversees institutional stormwater compliance related activities at the Laboratory.

3.3 Graded Approach

The following sections provide reference to the applicable Management Level Determinations and Software Risk Level forms.

3.3.1 Management Level Determination

The following Management Level Determinations are applicable to equipment and/or work activities for the MSGP Program (see Appendix A):

- ML-4, per MLDS No.: MLDS-TA-60-324, Revision 0.

3.3.2 Software Risk Levels

The Environmental Information Management (EIM), Maintenance Connection, and MSGP Corrective Action Oracle APEX software do not trigger any of the Reasonable Probability Criteria from P1040, Section 3.3.1. Therefore, the completion of a Safety/Non-Safety Determination, Categorization, and Software Risk Level (SRL) (Form 2033) is not required and the software is considered Non-Safety/Commercially Controlled.

4.0 PROGRAM-SPECIFIC QUALITY ASSURANCE REQUIREMENTS AND IMPLEMENTING WORK ACTIVITIES

Based on the Graded Approach results referenced above, this PIP is determined to be consistent with the work activity types covered by EPC-CP-QAP-001, Section 3.3. Attachment 1 presents a summary of the work practices (procedures, instructions, etc.,) that EPC-CP uses to meet the quality assurance (QA) requirements of SD300/Department of Energy (DOE) Order 414.1D, Chg. 2.

4.1 Criterion 1 – Management/Program

4.1.1 Program Goals

The MSGP Program supports EPC Division efforts to provide leadership in environmental protection and compliance services and compliance support to anticipate and manage environmental risk in support of Triad’s mission.

Triad complies with the monitoring requirements, such as parameters, frequency of sampling, reporting, etc., set forth in the NPDES MSGP for industrial point source discharges through the Laboratory’s MSGP Program. Compliance is demonstrated through the successful implementation of this PIP and applicable procedures.

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4.1.2 Roles and Responsibilities

EPC-CP is responsible for the Laboratory's MSGP Program and a description of the group organization, levels of authority, and lines of communication are found within this PIP. EPC-CP group is organized by program teams under the line management direction of the Group Leader. Teams are cross-functional and focus on specific Program responsibilities, deliverables, or products. Program teams are guided by Team Leaders who have the responsibility to assure that the program is properly implemented. The following sections identify the roles and responsibilities for EPC-CP personnel, contractors, and program interfaces.

4.1.2.1 Group Leader

- Assure that the program has adequate resources (e.g., budget, staffing, etc.) and that qualified staff properly gather and evaluate information submitted to the Environmental Protection Agency (EPA) as required by the MSGP Program.
- Sign Discharge Monitoring Reports (DMR), Annual Reports, Quarterly Visual Assessment Certifications, and change Notices of Intent (NOIs) prior to submittal to the EPA.
- Ensure that program personnel conduct procurements in accordance with P840-1, *Quality Assurance for Procurements*.
- Plan, conduct, and document periodic management assessments and Management Observation and Verifications (MOVs) of MSGP Program activities as required by P328-3 and P328-4.

4.1.2.2 Storm Water Permitting/Compliance Team Leader

- Ensure that program personnel perform work associated with the MSGP Program in accordance with the processes, procedures, and requirements specified in this plan.
- Ensure all MSGP Program personnel have the appropriate level of education, experience, and training to perform their job duties.
- Ensure that the most recent versions of the quality-related documents are used for all activities.
- Monitor and trend MSGP Program performance and track deficiencies.
- Support Facility Operations Directors (FODs) and Deployed Environmental Professionals (DEPs) with the implementation of corrective actions in a timely manner.
- Sign/submit DMRs, Annual Reports, Quarterly Visual Assessment Certifications, etc.
- Ensure PIP meets minimum specifications for documentation and records required by ADESH-QAP-001, *ADESH Quality Assurance Plan*.
- Conduct periodic reviews of records and documentation for accuracy, applicability, and compliance.

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- Provide oversight and ensure that monitoring requirements are followed in accordance with the MSGP Program.
- Ensure that all required compliance documents are submitted to EPA in accordance with the MSGP.
- Recommend to Group Leader contracting items and services.
- Assist the Group Leader in planning and implementing management assessments and MOVs.
- Identify issues, concerns, or problems that warrant management assessment.
- Oversee resolution and correction of all problems found during management assessments.

4.1.2.3 MSGP Program Lead

- Perform MSGP Program related activities as assigned by the Storm Water Permitting/Compliance Team Leader.
- Engage other team members to support implementation of the MSGP Program.
- Support DEPs and permitted industrial facility owners with the implementation of corrective actions in a timely manner.
- Ensure analytical instruments used in the field are calibrated as per Institutional Procedure P330-2, *Control and Calibration of Measuring and Test Equipment (M&TE)*. Periodically review and update the calibration procedures to ensure permit requirements are met.
- Identify opportunities for process improvement, health and safety enhancement, environmental protection, or other improvements of the program's operations.
- Ensure deficiencies are reported to the Storm Water Permitting/Compliance Team Leader in a timely manner.
- Implement a monitoring program as required by the MSGP.
- Ensure DMRs are prepared and submitted as required by the MSGP Program.
- Review documents for accuracy and completeness to assure that the requirements of the MSGP are met.
- Oversee data quality assessments prior to submittal of monthly, quarterly, and annual DMRs.
- Ensure procedures for sample handling and control during sample preparation, retrieval and analysis are followed.
- Identify issues, concerns, or problems that warrant management assessment.
- Periodically evaluate corrective actions to determine if there are issues that need to be entered into the Issues Management Tool.

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- Oversee preparation, conduct quality review, and submit all required compliance documents (e.g., NOI/Notice of Termination (NOT), DMRs, Annual Reports, and correspondence) to EPA.
- Oversee preparation and conduct quality review of Stormwater Pollution Prevention Plans (SWPPP) coordinated with the responsible organization.

4.1.2.4 Storm Water Tracking System/Discharge Monitoring Report Manager

- Perform MSGP Program related activities as assigned by the Storm Water Permitting/Compliance Team Leader.
- Serve as database administrator for the Storm Water Tracking System (SWTS) and Discharge Monitoring Report modules in EIM.
- Maintain current MSGP station and monitoring requirement configuration content in SWTS.
- Ensure all results from sampling are returned and are eligible for reporting.
- Assist MSGP Program Lead in conducting data quality assurance review.
- Conduct data quality assessments prior to submittal of monthly, quarterly, and annual DMRs.
- Ensure compliance reports (NOI/NOT, DMRs, and Annual Reports) are prepared as required by the MSGP.
- Prepare stormwater DMRs for the MSGP Program.

4.1.2.5 MSGP Personnel

- Perform MSGP Program related activities as assigned by the Storm Water Permitting & Compliance Team Leader.
- Implement approved processes and procedures for any equipment and instrumentation used to collect field data (i.e., visual assessment parameters, temperature, and pH).
- Mentor and train new personnel, as needed.
- Conduct sampling activities in accordance with approved processes and procedures.
- Perform sample handling and control during sample preparation, retrieval, and analysis in accordance with approved processes and procedures.
- Notify the MSGP Program Lead immediately upon discovery of field parameter(s) (visual assessment parameters, temperature, and/or pH) exceedances.
- Conduct QA check of methods/equipment.
- Procure sampling equipment (i.e., bottles, standards, preservatives) in accordance with P840-1, *Quality Assurance for Procurements*. Order materials and supplies in accordance with LANL protocol.

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4.1.2.6 EIM Database Administrator

- Coordinate with the Subcontract Technical Representative (STR) to ensure that formal contracts are in place to support MSGP Program compliance activities.
- Coordinate with the STR to oversee contract analytical laboratories and ensure they follow the DOE Analytical Services Program.
- Coordinate with the STR to ensure that the off-site laboratory participates in the DOE Consolidated Audit Program and that the analytical laboratory has been audited on an annual basis.
- Administer and maintain the database.
- Provide role-related database access.
- Maintain facility and personnel configuration content, permit-defined lists of limited values (LLVs), and e-mail notification distribution lists.
- Ship/transport samples to the correct off-site analytical laboratory for analysis.
- Administer and maintain sampling plans and sample documentation.
- Load analytical data into the EIM database and run auto-validation checks.
- Manage analytical laboratory data packages.

4.1.2.7 Corrective Action Reporting Database Administrator

- Administer and maintain the database.
- Provide role-related database access.
- Maintain facility and personnel configuration content, permit-defined LLVs, and e-mail notification distribution lists.

4.1.2.8 Maintenance Connection Database Administrator

- Administer and maintain the database.
- Provide role-related database access.
- Maintain facility and personnel configuration content.
- Extract data to support preparation of the MSGP Annual Report.

4.1.3 Internal Interfaces

4.1.3.1 Facility Operations Directors

The FOD provides organizational leadership to ensure that all facility and programmatic activities under their authority are performed in compliance with the MSGP. The FOD is also responsible for

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establishing an environmental compliance envelope. It is the FOD’s responsibility to maintain trained and qualified DEPs and Waste Management Coordinators on staff under their authority.

4.1.3.2 Permitted Industrial Activity Facility Owner/Operator

The permitted industrial activity facility owner/operator is the organization or individual(s) designated by management to oversee the day-to-day operation and maintenance of each regulated facility and its associated stormwater control measures (SCMs) and outfalls. The designated owner/operator may be the FOD, Facility Operations Manager, Maintenance Manager, or Group Leader responsible for the buildings, facilities, and areas where the SCMs and outfalls are located. The MSGP Program interfaces with the owners/operators to assist in determining appropriate maintenance, corrective actions, inspections, site walks, and monitoring.

4.1.3.3 Deployed Environmental Professional

DEPs are embedded within FODs as assigned by the Deployed Environment Professionals Team Leader. DEPs provide daily environmental oversight, guidance, and support to the FOD and each designated permitted industrial activity facility owner/operator. The MSGP Program interfaces with DEPs regularly to coordinate outfall surveys, inspections, site walks, and monitoring. The DEPs perform the following MSGP activities.

- Act as a liaison between the permitted industrial activity operating facilities, the FOD, and EPC-CP.
- Write and update the facility-specific MSGP SWPPP.
- Conduct Routine Facility Inspections.
- Document, update, and coordinate correction of identified conditions requiring corrective actions.
- Identify personnel within industrial operating facilities requiring training.
- Update MSGP facility-specific training and present the training annually.

4.1.3.4 Sample Management Office (SMO)

The EPC-CP SMO is the central point for all analytical laboratory selection, evaluations, sample submittals, and data returns. The SMO performs the following activities.

- Evaluates potential analytical laboratories, prepares analytical statements of work that include requirements, and arrange contracts with selected laboratories for analysis of all samples.
- Accepts samples from sample collection personnel, prepares the sample for shipment, ships the samples to the off-site analytical laboratories, and receives the data packages from the laboratories.
- Analytical data is received from analytical laboratories in electronic format and uploaded into a database. Received data is checked for completeness and adherence to contract

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requirements. After uploading, data undergoes verification and validation for evidence of laboratory contamination, improper analytical method, and other analytical issues, which could potentially affect data quality.

- Field data collected by sample collection personnel is verified and entered into EIM by SMO personnel when sample collection personnel deliver samples to the SMO.
- If significant verification and validation issues are identified, results are forwarded to, and discussed with, the responsible program lead.
- Data issues that result from procedural failures, personnel errors, or other failures to follow requirements are documented and corrected according to P322-4, *Issues Management*.

4.1.4 External Interfaces

4.1.4.1 Environmental Protection Agency

EPA Region 6 authorizes coverage under the MSGP in the State of New Mexico. The MSGP Program interfaces with the EPA, as needed, to submit public comment on draft permits, submit permit required reports, plans and other documentation, and to ensure compliance with the NPDES MSGP.

4.1.4.2 New Mexico Environmental Department

The New Mexico Environmental Department (NMED) Surface Water Quality Bureau assists the EPA with compliance evaluations, monitoring and Section 401, Clean Water Act certification through a joint federal and state agreement. Section 401 requires all federally issued permits to be certified by the state in which the discharge occurs and requires effluent limitations, other limitations and monitoring requirements set forth in the permit adhere to state water quality standards. The MSGP Program interfaces with the NMED as needed to ensure compliance with the Permit.

4.1.4.3 National Nuclear Safety Administration/Los Alamos Field Office

The National Nuclear Safety Administration (NNSA)/Los Alamos Field Office is the LANL facility owner and is responsible for providing oversight of LANL operations. It is the responsibility of the Los Alamos Field Office to ensure that LANL operates in compliance with all state and federal regulations. The MSGP Program interfaces with the Los Alamos Field Office as needed to ensure compliance with the Permit.

4.1.4.4 Analytical Laboratory Contractors

An independent off-site analytical laboratory performs analytical services for the MSGP Program. The analytical laboratory is required to participate in the DOE Consolidated Audit Program, maintain positive control of samples, perform analyses for samples received, and report sample results as specified in statements of work and internal procedures. The STR and SMO personnel interface with the off-site analytical laboratory. Interface between MSGP Program personnel and the analytical laboratory is conducted with STR and SMO oversight, as needed, to ensure that samples are handled correctly and that analytical results are received per the contract requirements.

4.2 Criterion 2 – Management/Personnel Training and Qualification

The Storm Water Permitting/Compliance Team Leader shall determine skills, knowledge, and abilities required to perform MSGP Program work. Program personnel will be qualified and trained in accordance with P781-1, *Conduct of Training*. The Storm Water Permitting/Compliance Team Leader assigns minimum training requirements using a training plan. The Triad Human Resources Division maintains documentation of education qualification. Table 4.2 provides a summary of training and qualification requirements for MSGP Program personnel.

| Key Personnel/Role | Qualification Standard | Program Specific Training |
|---|--|----------------------------------|
| Storm Water Permitting/Compliance Team Leader | <ul style="list-style-type: none"> • EPC-CP Manager Qualification Standard • EPC-CP Group Qualification Standard • EPC-CP-QS-2005, Stormwater Inspector Qualification Standard • EPC-CP-QS-2006, Stormwater Pollution Prevention Plan Preparer Qualification Standard • EPC-CP-QS-2007, Stormwater Design Reviewer Qualification Standard | EPC-CP-PIP-2101 |
| MSGP Program Lead, MSGP Personnel | <ul style="list-style-type: none"> • EPC-CP Group Qualification Standard • EPC-CP-QS-2005, Stormwater Inspector Qualification Standard • EPC-CP-QS-2006, Stormwater Pollution Prevention Plan Preparer Qualification Standard • EPC-CP-QS-2007, Stormwater Design Reviewer Qualification Standard* | |
| Discharge Monitoring Report Manager | <ul style="list-style-type: none"> • EPC-CP Group Qualification Standard | |
| Database Administrator | <ul style="list-style-type: none"> • EPC-CP Group Qualification Standard | * |
| * As required by job duties. | | |

4.3 Criterion 3 – Management/Quality Improvement

The MSGP Program adheres to the EPC-CP-QAP-001 principles of problem prevention and continuous improvement. The MSGP Program Lead will evaluate improvement opportunities identified by trending and reporting.

4.3.1 Performance Reporting

Personnel involved in activities associated with the MSGP Program are encouraged to provide periodic updates, either verbal or written, to the MSGP Program Lead. The program uses these updates to determine areas that require attention and corrective actions.

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4.3.2 Corrective Actions

Corrective actions for all EPC-CP programs and projects are initiated, tracked, corrected, and documented according to P330-6, *Nonconformance Control and Reporting*, P322-4, *Issues Management*, ADESH-QAP-001, *ADESH Quality Assurance Plan*, and Group procedures. A condition requiring corrective action that meets any of the following criteria is entered into the Issues Management Tool and will be screened as high, medium, or low.

- Corrective action was not completed by the expected completion date.
- A schedule is sent to the EPA Region 6 requesting an extension of the 45-day or 90-day timeframe to complete a corrective action and corrective action was not completed by the required completion date provided in the letter or as approved by EPA.
- All benchmark Additional Implementation Measure (AIM) level 2 or 3 exceedances.
- Repeat corrective actions or trends identified by EPC-CP personnel.
- Conditions requiring immediate action, where failure to take action would result in pollutants being released to a water body of the State or an immediate non-compliance with the MSGP.
- Violations identified by the regulatory authority.
- Other issues as deemed necessary by EPC-CP personnel.

4.4 Criterion 4 – Management/Documents and Records

4.4.1 Document Control

Procedures, permits, NOIs, NOTs, reports, and quality affecting correspondence are controlled by the organization’s document control system (ESH-AP-007, *Document Control*). As a Best Management Practice (BMP), EPC-CP keeps an approved hard copy of the MSGP as well as all of the reapplication materials associated with the permit.

Controlled copies of EPC documents are located on the Internet:

- [Electronic Document and Records Management System](#)

Phone calls or emails are documented and controlled if the content provides direction or results in clarification of permit requirements or decisions.

4.4.2 Procedures

Procedures that implement the work scope identified in this PIP are developed and controlled, as needed, in accordance with ADESH-QAP-001, *ADESH Quality Assurance Plan*, ESH-AP-007, *Document Control*, and EPC-CP-QP-0901, *EPC-CP Quality Procedure to Supplement ESH-AP-007, Document Control*.

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4.4.3 Electronic Media

The MSGP utilizes electronic means, as necessary, to maintain data. Databases used to hold data and generate reports used in demonstrating compliance are maintained on a common drive of a server or on a cloud-based platform. These databases are backed-up daily to minimize potential loss of data. The database administrator(s) control access to these databases, allowing only trained authorized personnel access to the databases.

EIM (<https://www.locusfocus.com/eim/eim.cfm>) is a cloud-based database information system designed in part to support the information management needs of the Laboratory's MSGP. MSGP support includes analytical data management, stormwater discharge monitoring reporting, Geographic Information System (GIS) development, and other information management activities as needed.

Maintenance Connection

(https://www.maintenanceconnection.com/mcv18/online/mc_login_form.asp) is a cloud-based computerized maintenance management system, or CMMS, used to manage MSGP field activities such as monitoring station installation and removal, inspections, maintenance, sample collection and retrieval, visual inspections, and information management change controls for data stored in Maintenance Connection and in the SWTS Module in EIM.

The MSGP Corrective Action Report (MSGP CAR) database (<https://epc.lanl.gov>) is a Laboratory-managed Oracle APEX database and associated administration module that tracks corrective action data.

4.4.4 Records Management

Records are maintained and available for auditing in accordance with ESH-AP-006, *Records Management Plan*. The Storm Water Permitting/Compliance Team generates and retains records to ensure compliance with monitoring and recordkeeping requirements as specified by the Laboratory, DOE, and the EPA. Records kept by the MSGP Program include the following:

- Copy of the MSGP
- Annual Reports
- Discharge Monitoring Reports
- Corrective Action Reports
- NOIs and NOTs
- Reports and certifications required by the MSGP
- Data used for compliance purposes
- Inspection forms
- Logbook entries and/or field forms to document inspection and monitoring activity
- Equipment and instrument calibration and maintenance records

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- QA documents
- General correspondence that affects the program (e.g., phone calls, emails, and log entries that provide directions or results in decisions)
- Applicable IWDs
- General MSGP compliance documents (correspondence with regulators and stakeholders, notice of change conditions, etc.)

Analytical data packages are stored in EDRMS and are available for public viewing on the Intellus New Mexico website.

The DEPs, assigned to the FOD in which a permitted industrial activity facility resides, keep the following records within the facility-specific Stormwater Pollution Prevention Plan.

- Reports and certifications required by the MSGP
- Routine Facility Inspection forms
- Visual Assessment forms
- Corrective Action Reports
- Discharge Monitoring Reports
- Annual Reports

All monitoring data is collected in accordance with the requirements specified in the MSGP. Triad submits monitoring results to EPA within 60 days of the end of the monitoring period, or in the case of no discharge (NODI) DMRs, within 30 days of the end of the monitoring period. The NOI or change NOIs, Annual Reports and DMRs are submitted electronically in accordance with the MSGP. These documents are submitted via EPA's electronic reporting site called the [Central Data Exchange \(CDX\)](#) website, unless the permit states otherwise or unless a waiver has been granted.

Triad keeps copies of the following documentation for a period of at least 3 years from the date its coverage under the MSGP expires or is terminated.

- SWPPP (including any modifications made during the term of the MSGP)
- Additional documentation requirements as identified in Section 6.5 of the MSGP
- All reports and certifications required by the MSGP
- Monitoring data
- Records of all information used to complete the NOI.

4.5 Criterion 5 – Performance/Work Processes

Work that contributes to achieving the quality specifications of the MSGP deliverables, is planned and documented, as described in this document and implementing procedures.

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Work is performed according to applicable plans and implementing procedures. The Program Lead provides first line supervision of personnel assigned to program tasks to ensure work is performed to achieve program quality specifications. Before changing a work process that affects the program quality specifications, the Program Lead ensures the same level of planning and review as used in the initial program planning steps.

4.5.1 Work Processes

All work should be regarded as a process. Each process consists of a series of actions and is planned and carried out by qualified workers using specified work processes and equipment under administrative, technical, and environmental controls established by management to achieve an end result. Workers are the best resource to contribute ideas for improving work processes and are involved in work process design, process evaluation, and providing the feedback necessary for improvement.

Work is planned and performed using the principles of Integrated Safety Management and is in compliance with P300, *Integrated Work Management for Work Activities*.

4.5.2 Stormwater Pollution Prevention Plans

SWPPP development and implementation by the permitted industrial activity facility is required for MSGP compliance (refer to Sections 6.0 and 8.0 of the MSGP for general SWPPP requirements and Sector-Specific Requirements for Industrial Activity, and Attachment 2, *MSGP Facilities Associated with Industrial Activity*). The SWPPP is intended to document the selection, design, and installation of SCMs. Additional documentation requirements are intended to document the implementation (including inspection, maintenance, monitoring, and corrective action) requirements identified in the MSGP. The SWPPP is a written assessment of potential sources of pollutants in stormwater runoff and it identifies SCMs implemented at the specific permitted industrial activity facility to minimize the discharge of pollutants in runoff from the site. These SCMs include site-specific stormwater controls, inspections, employee training, and reporting. The plans and procedures detailed in the SWPPP are implemented by the facility and updated as necessary, with a copy of the SWPPP kept on-site.

The SWPPP development process involves evaluating regulated industrial activities and requires FOD and Operational support for implementation, improvement, and revision of the plans. EPC-CP personnel follow guidance in EPC Division and Group documents including the most current revision of EPC-CP-QP-2110, *MSGP Stormwater Pollution Prevention Plan Preparation and Maintenance*.

4.5.3 Inspections

The MSGP requires periodic inspection of industrial processes and maintenance of SCMs to ensure their effectiveness. Triad has implemented a routine inspection process (e.g., monthly or quarterly) of industrial activity facilities permitted under the MSGP to support this determination. For information about how to perform a Routine Facility Inspection and how to complete the associated form, refer to the most current revision of EPC-CP-QP-2108, *MSGP Routine Facility Inspections*.

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Visual assessments are also required by the MSGP as an important tool for collecting information to determine the effectiveness of controls in preventing potential contaminants from migrating off Laboratory property. Accordingly, field personnel conduct visual assessments for stormwater collected at the monitoring stations or discharged through substantially identical outfalls associated with permitted industrial activity facilities located throughout the Laboratory. Information recorded documents all observations that are required by the MSGP. For information about how to perform a Visual Assessment and how to complete the associated form, refer to the most current revision of EPC-CP-QP-2105, *MSGP Stormwater Visual Assessments*.

4.5.4 Stormwater Corrective Actions

It is critical that Triad be able to effectively inspect and maintain the SCMs that have been installed at various locations. Quarterly inspections are completed and provided to the Program Lead for inclusion into the records system. In addition, the Program Lead accompanies the DEPs on the last Routine Facility Inspection of the year. All identified conditions requiring corrective action are summarized in an Annual Report submitted EPA each year. Triad management has made an investment in time and materials, in addition to a commitment to minimize potential migration of pollutants in stormwater. Report findings are evaluated, and in conjunction with facility personnel, SCMs are modified, installed, or removed as necessary. EPC-CP personnel follow guidance in EPC Division and Group level documents including EPC-CP-QP-2109, *MSGP Corrective Actions*.

4.5.4.1 Responding to Water Quality Exceedances

Federal stormwater regulations implemented under the Laboratory's MSGP require corrective action to be taken if exceedances of water quality standards or MSGP numeric effluent limits are identified. The identification of a pollutant source(s) contributing to a water quality exceedance is addressed through the creation of a condition requiring corrective action that is entered into the MSGP CAR database in accordance with EPC-CP-QP-2109, *MSGP Corrective Actions*. Corrective actions are typically accomplished by modifying, as appropriate, existing SCMs and SWPPPs or installing new SCMs.

When a water quality exceedance occurs, the MSGP EIM Database Administrator assures the analytical data is reviewed and submitted on the required DMR. The Program Lead enters the exceedance as a condition requiring corrective action in the MSGP CAR database. DEPs, and other SWPPP team members then investigate the occurrence, implement corrective action and document all corrective actions taken.

When an exceedance of the MSGP benchmark parameters is detected, the same process is followed as identified for a water quality exceedance above.

4.5.5 Stormwater Monitoring

The MSGP requires stormwater monitoring to address three separate criteria: Quarterly Benchmark, Effluent Limitations, and Impaired Waters. Refer to Attachment 2, *MSGP Facilities Associated with Industrial Activity* for a list of Laboratory permitted facilities that have monitoring requirements. Stormwater monitoring is conducted by EPC-CP personnel in accordance with the MSGP, EPC-CP

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procedures, and the current year MSGP Sampling and Analysis Plan. Considerations to be used for MSGP stormwater monitoring include, but may not be limited to, MSGP requirements, State water quality standards, and Administrative Authority requests.

Quarterly benchmark monitoring is used for determining the effectiveness of stormwater controls and, corrective actions for meeting the requirements of the MSGP. Four benchmark stormwater samples per year are required under the MSGP, but it is not necessary to collect them in consecutive quarters if climatic conditions preventing quarterly collection are documented (see *Adverse Weather Conditions* in Part 4.1.5 of the MSGP). Stormwater monitoring results are used to demonstrate compliance with water quality standards and to meet the requirement to evaluate results against benchmark parameter permit limits.

Annual Impaired Waters stormwater discharge monitoring of all pollutants for which a waterbody is impaired and for which a standard analytical method exists (see 40 CFR Part 136) is required. The canyons within and surrounding the Laboratory are declared as impaired waters by NMED. Impaired waters pollutants vary from canyon to canyon and are evaluated and published biannually by NMED in the Clean Water Act §303(d)/305(b) Integrated Report. The pollutants may be discontinued in subsequent annual monitoring if the concentration is below background levels in stormwater or if the constituent is not detected in year 1 or year 4 of the permit.

Effluent limitations monitoring is required annually where effluent limitation guidelines have been established for select regulated activities. Exceedance of an effluent limitation is a permit violation.

MSGP analytical methods applicable to LANL are consistent with the requirements of 40 CFR Part 136, *Guidelines Establishing Test Procedures for the Analysis of Pollutants*.

Triad monitors for four quarters as follows for each calendar year.

- January 1-March 31
- April 1-June 30
- July 1-September 30
- October 1-December 31

Documentation of the rationale for no monitoring or inspections due to adverse weather conditions must be included in the facility specific SWPPP. Adverse weather conditions are those that are dangerous or create inaccessibility for personnel, such as local flooding, high winds, or electrical storms, or situations that otherwise make sampling impractical, such as drought or extended frozen conditions.

Compliance is tracked by performing inspections of samplers and other associated equipment, and inspecting SCMs. Adequate records are maintained to demonstrate the operating history of essential instrumentation and equipment.

Triad operates and maintains systems of monitoring, control, and related equipment that are installed or used to achieve compliance with the MSGP and the SWPPP. Backup instrumentation and equipment will be timely deployed in the event of equipment failure.

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Instrument calibration is essential for documenting the quality of data obtained with the instrument. Technical work that depends upon the accuracy of data is performed using equipment for which the calibration status and limits of accuracy are known and controlled.

Field team personnel calibrate and perform maintenance procedures on all monitoring and analytical field instruments to ensure accuracy of measurements and maintain appropriate records of such activities. Calibrations are documented as prescribed by procedures or manufacturer’s instructions.

Any person involved in the preparation, retrieval, and analysis will maintain positive control of samples at all times until sample disposal. Chain of custody responsibilities are provided in EPC-CP-QP-3020, *Sample Control and Field Documentation* and Table 4.5.5-1. EPC-CP personnel follow guidance in EPC Division documents including the most current revision of:

- EPC-CP-TP-2102, *Installing, Setting Up, and Operating ISCO Samplers*;
- EPC-CP-TP-2103, *Inspecting Stormwater Runoff Samplers and Retrieving Samples for the MSGP*;
- EPC-CP-QP-2104, *Installing, Inspecting, and Maintaining MSGP Single Stage Samplers*; and
- EPC-CP-QP-2106, *Processing MSGP Stormwater Samples*.

| Activity | Responsibility |
|-----------------------------------|---|
| Sample collection and preparation | All persons (other than analytical personnel) performing sample preparation and collection are trained to sample collection procedures and adhere to the chain of custody requirements therein. |
| Analysis | Analytical laboratories performing sample analysis maintain sufficient procedures to ensure positive control of samples as specified in the existing Statement of Work. |
| Storage/Disposal | Analytical laboratories maintain/retained samples and/or sample portions under chain of custody until reanalysis, or ultimate disposal. |

The EPC-CP SMO is the central point of contact for analytical laboratory selection, evaluations, sample submittal, and data return. See Section 4.1.3.4 for SMO roles and responsibilities.

4.5.5.1 Quality Control Samples

The planning and coordination of each sampling event and/or monitoring period may include the following quality control (QC) samples to detect potential sources of sample contamination or to track analytical laboratory performance:

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- **Equipment Rinsate Blank:** A sample of analyte-free water that is prepared in the field using the appropriate sampling equipment with an aliquot of deionized (DI) or certified contaminant-free water that is processed using applicable field equipment in the same manner as the samples.
- **Field Duplicates:** Two samples taken from and representative of the same population and carried through all steps of the sampling and analytical procedures in an identical manner. Duplicate samples are used to assess variance of the total method including sampling and analysis.
- **Trip Blank:** Samples of analyte-free water that are prepared in the laboratory using DI or certified contaminant-free water and preserved as required. Trip blanks are used for volatile organic compound (VOC) samples only. Trip blanks are transported, unopened, to the field with other sample containers, handled like environmental samples and shipped to the analytical laboratory for analysis with the collected samples. VOC samples are not a requirement of the MSGP.
- **Field Blank:** A sample of analyte-free water that is prepared in the field using a clean sample container.

The MSGP Program Lead shall consider and include, at a minimum, the collection of QC samples at the frequencies identified in Table 4.5.5.1-1.

| Table 4.5.5.1-1 Quality Control Sampling Requirements | | |
|--|--------------------------------|---|
| Sample Type | Analysis | Frequency |
| Field Blank and/or Field Duplicate | Includes all analytical groups | 10% of samples or a minimum of one per calendar year. |

All QC samples shall be collected in accordance with procedures provided in EPC-CP-QP-3027, *Sample Containers, Preservation, and Field Quality Control*.

4.5.6 Reporting

4.5.6.1 Discharge Monitoring Reports

DMRs are prepared in accordance with the most recent version of the procedure for generating DMRs using the DMR module in EIM. The DMR module is used to prepare the DMR in two formats: a paper form (EPA Form 3320-1) which may be printed as a hard copy or saved as a PDF, and an electronic comma-separated value file for import into the NetDMR electronic reporting system. The Laboratory is required to submit DMRs to EPA electronically using the NetDMR system and to keep a printed copy with the facility-specific SWPPP.

DMRs are due in the NetDMR system no later than 60 days following each monitoring period. NetDMR is accessed via EPA's CDX website (<https://cdx.epa.gov/>). The DMR manager may import DMRs into NetDMR; however, only a designated EPC Signatory Official or Authorized Representative

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may submit the DMRs for NPDES Permits. NetDMR roles and permissions for these functions are described on the NetDMR Support Portal (<https://netdmr.zendesk.com/>).

4.5.6.2 Annual Reports

The Laboratory is required to submit an annual report electronically to the EPA by January 30th for each year of permit coverage that includes a summary of the findings from inspections and corrective action documentation. The documentation includes the following:

- Information relative to whether a waiver was granted, by whom, and the date the waiver was approved;
- The NPDES Permit Tracking Number;
- A summary of the past year’s routine facility inspection documentation (see Part 3.1.6 of the MSGP);
- A summary of your past years quarterly visual assessment documentation (see Part 3.2.3 of the MSGP);
- A summary of the corrective action and/or AIM documentation over the past year (see Parts 5.1.3 and 5.3 of the MSGP); and

The annual report is submitted electronically via the NetMSGP program service on EPA’s CDX website. The annual report may be submitted on a paper form (EPA Form 6100-28) if the Laboratory has been granted a waiver from electronic reporting by the applicable EPA Regional Office.

4.6 Criterion 6 – Performance/Design

Design activities are conducted and reviewed in accordance with:

- PD340, *Conduct of Engineering and Configuration Management for Facility Work*;
- P341, *Facility Engineering Processes Manual* and;
- P342, *Engineering Standards*.

Design standards under this program include, but are not limited to temporary and permanent SCMs, conditions requiring corrective action, and stormwater monitoring support.

Design inputs are specified and approved on a timely basis for making design decisions. Inputs contain the level of detail required to permit the performance of design activities correctly.

Formal design reviews, including design verifications and evaluation of design changes, are conducted to ensure that the design input is correctly incorporated into the design output. Changes to design will undergo the same review as the original design. A Professional Engineer must stamp engineered designs.

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Verification and validation of the adequacy of designs are conducted before relying on the performance of the design function. Verification and validation are conducted in accordance with implementing procedures.

4.7 Criterion 7 – Performance/Procurement

Items and services required to perform the scope for the MSGP Program are commercial grade in nature and no special procurement requirements or needs are necessary. All procurements of equipment, supplies, and/or services are made in accordance with P840-1, *Quality Assurance for Procurements*.

4.8 Criterion 8 – Performance/Inspection and Acceptance Testing

Materials and services used in this program will be inspected and/or tested prior to acceptance in accordance with P330-8, *Inspection and Test* as applicable. Most supplies used during performance of program activities are commercial grade in nature and require no special acceptance practices or procedures.

4.9 Criterion 9 – Assessment/Management Assessment

The EPC-CP Group Leader conducts management assessments and/or MOV assessments of the MSGP Program in accordance with P328-3, *Management Assessment* and P328-4, *Management Observation and Verification*. Assessments are documented and filed as records in accordance with ESH-AP-006, *Records Management Procedure*. Violations of requirements and/or findings from management assessments and/or MOVs initiate a nonconformance report in accordance with P330-6 *Nonconformance Control and Reporting*. Corrective actions to resolve the nonconforming services or processes are tracked and documented in accordance with P322-4, *Issues Management*.

4.10 Criterion 10 – Assessment/Independent Assessment

Independent assessments are those assessments conducted by organizations external to EPC-CP. As required by the SD330, *Los Alamos National Laboratory Quality Assurance Program*, this program may be assessed by outside organizations in accordance with P328-2, *Independent Assessment*.

Annual audits/assessments will be conducted, with input from the Storm Water Permitting/Compliance Team Leader identifying one or more areas of the program to be audited each year. If a violation of requirements is found during an independent audit/assessment, a nonconformance report is initiated in accordance with P330-6, *Nonconformance Control and Reporting*. Corrective actions are tracked and documented in accordance with P322-4, *Issues Management*.

4.11 Suspect/Counterfeit Items Prevention

Suspect/Counterfeit items (S/CI) are prevented from being purchased by Triad at LANL. Potential S/CI are prevented, detected, reported and investigated in accordance with the procedures defined in the LANL procedure P330-9, *Suspect/Counterfeit Items (S/CI)*.

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4.12 Safety Software Quality Assurance Requirements for Nuclear Facilities

This section is only applicable for nuclear facilities in accordance with DOE Order 414.1D, Chg.2, Attachment 1 *Contractor Requirements Document* (CRD), Section 1.b. As such, this section is not applicable to the NPDES MSGP Program.

5.0 IMPLEMENTATION

The requirements of this document are effective on the date provided on the cover page.

6.0 TRAINING

Training for EPC-CP MSGP employees, DEPs, and subcontractors are assigned and tracked using UTrain, the institutional training management system. The required training associated with this document is as follows.

- Self-study of this procedure (required reading) is required for all MSGP Program employees, including subcontractors, and some DEPs depending on their assigned job duties.

7.0 DOCUMENTS AND RECORDS

The Environment, Safety, Health, Quality, Safeguards, and Security-Document Control and Records Management is the Office of Record for this document and maintains the administrative record. Documents and records are maintained in accordance with PD1020, *Document Control and Records Management*; ESH-AP-007, *Document Control*; P1020-1, *Laboratory Records Management*, and ESH-AP-006, *Records Management Procedure*.

8.0 DEFINITIONS AND ACRONYMS

Use the LANL *Definition of Terms* and those in SD330.

Use the LANL *Acronym Master List*.

| | |
|--------|---|
| BMP | Best Management Practice |
| CDX | Central Data Exchange |
| CFR | Code of Federal Regulations |
| CRD | Contractor Requirements Document |
| DEP | Deployed Environmental Professional |
| DI | Deionized |
| DMR | Discharge Monitoring Report |
| DOE | Department of Energy |
| EIM | Environmental Information Management |
| EPA | Environmental Protection Agency |
| EPC-CP | Environmental Protection and Compliance-Compliance Programs |
| FOD | Facility Operations Director |
| LANL | Los Alamos National Laboratory |

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| | |
|-------|---|
| LLV | List of Limited Value |
| MOV | Management Observation and Verification |
| MSGP | Multi-Sector General Program |
| NeT | NPDES eReporting Tool |
| NMED | New Mexico Environmental Department |
| NNSA | National Nuclear Safety Administration |
| NOI | Notice of Intent |
| NOT | Notice of Termination |
| NPDES | National Pollutant Discharge Elimination System |
| PIP | Program Implementation Plan |
| QA | Quality Assurance |
| S/CI | Suspect/Counterfeit Items |
| SCM | Stormwater Control Measure |
| SMO | Sample Management Office |
| STR | Subcontract Technical Representative |
| SWPPP | Stormwater Pollution Prevention Plan |
| SWTS | Storm Water Tracking System Module |
| VOC | Volatile organic compound |

9.0 REFERENCES

The latest document revision, available through Triad's Electronic Document and Records Management System, shall be used unless otherwise specified.

Prime Contract

DOE Order 414.1D, Chg. 2, *Quality Assurance*

NPDES MSGP

40 CFR Part 136, *Guidelines Establishing Test Procedures for the Analysis of Pollutants*

Clean Water Act, Title 33 U.S.C. 1251

20.6 Part 4 NMAC, *Standards for Interstate Surface Waters*

LANL Documents:

SD330, *Los Alamos National Laboratory Quality Assurance Program*

P101-17, *Excavation/Fill/Soil Disturbance*

P300, *Integrated Work Management*

P322-4, *Issues Management*

P328-2, *Independent Assessment*

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P328-3, *Management Assessment*

P328-4, *Management Observation and Verification*

P330-2, *Control and Calibration of Measuring and Test Equipment (M&TE)*

P330-6, *Nonconformance Control and Reporting*

P330-8, *Inspection and Test*

P330-9, *Suspect/Counterfeit Items (S/CI)*

P340, *Conduct of Engineering and Configuration Management for Facility Work*

P341, *Facility Engineering Processes Manual*

P342, *Engineering Standards*

EPC-ES-FSD-001, *Implementing Environmental Requirements*

EPC-CP-FSD-001, *Water Quality*

P781-1 *Conduct of Training*

P840-1, *Quality Assurance for Procurements*

P1040, *Software Quality Management*

PD1020, *Document Control and Records Management*

P1020-1, *Laboratory Records Management*

EPC Documents:

ESH-AP-006, *Records Management Procedure*

ESH-AP-007, *Document Control*

ADESH-QAP-001, *ADESH Quality Assurance Plan*

EPC-DO-QP-100, *General Field Safety*

EPC-CP-QAP-001, *Environmental Compliance Programs Quality Assurance Plan*

EPC-CP-QP-0901, *EPC-CP Quality Procedure to Supplement ESH-AP-007, Document Control*

EPC-DO-TP-120, *Project Review Process*

EPC-CP-QP-2109, *MSGP Corrective Actions*

EPC-CP-QP-2104, *Installing, Inspecting, and Maintaining MSGP Single Stage Samplers*

EPC-CP-QP-2105, *MSGP Stormwater Visual Assessments*

EPC-CP-QP-2106, *Processing MSGP Stormwater Samples*

EPC-CP-QP-2107, *Preparing Discharge Monitoring Reports for the NPDES Multi-Sector General Permit*

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EPC-CP-QP-2108, *MSGP Routine Facility Inspections*

EPC-CP-QP-2110, *MSGP Stormwater Pollution Prevention Plan Preparation and Maintenance*

EPC-CP-TP-2102, *Installing, Setting Up, and Operating ISCO Samplers*

EPC-CP-TP-2103, *Inspecting Stormwater Runoff Samplers and Retrieving Samples for the MSGP*

10.0 APPENDICIES

Appendix A: NPDES Multi-Sector General Permit Program Management Level Determination, MLDS-TA-60-324 Rev. 0

11.0 ATTACHMENTS

Attachment 1: Summary of QA Requirements and Program-Level (Local) Work Practices

Attachment 2: MSGP Facilities Associated with Industrial Activity

12.0 CONTACT INFORMATION

Entity: EPC-CP Storm Water Permitting/Compliance Team Leader

Name: Terrill W. Lemke

Telephone: (505) 665-2397

E-mail: tlemke@lanl.gov

Website: <https://int.lanl.gov/org/ddops/aladeshqss/environmental-waste-programs/compliance-programs/index.shtml>

Appendix A: NPDES Multi-Sector General Permit Program Management Level Determination, MLDS-TA-60-324 Rev. 0

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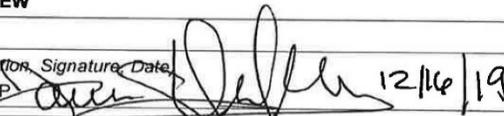
**Multi-Sector Conduct of Engineering
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| | | |
|---|--|---------------------------------------|
| 1.0 SYSTEM INFORMATION | | |
| 1.1 TA No.: All | 1.2 Facility No.: All | 1.3 Facility Name: All LANL |
| 1.4 Facility Hazard Category: <input type="checkbox"/> Nuclear Facility <input checked="" type="checkbox"/> Nonnuclear Facility | | |
| <input type="checkbox"/> HC-2 | <input type="checkbox"/> Chemical High-PSM | <input type="checkbox"/> Accelerator |
| <input type="checkbox"/> HC-3 | <input type="checkbox"/> Chemical High-non-PSM | <input type="checkbox"/> Firing Range |
| <input type="checkbox"/> Less than HC-3 | <input type="checkbox"/> Chemical Moderate | <input type="checkbox"/> Biological |
| | <input checked="" type="checkbox"/> Chemical Low | <input type="checkbox"/> Explosive |
| 1.5 Operating System ID: WSTWTR | 1.6 Operating System Name: Waste Water | |
| 1.7 System ID: STW | 1.8 System Name: Storm Water – Multi-Sector General Permit Program | |

| | |
|---|--|
| 2.0 SECURITY CLASSIFICATION REVIEW | |
| 2.1 Security Classification: Unclassified | |
| 2.2 DC/RO: (Name, Z Number, Organization, Signature, Date) Tania Van Valkenburg, 145666, EPC-CP  12/16/19 | |

| | | |
|---|---|---|
| 3.0 SYSTEM MANAGEMENT LEVEL DETERMINATION ANALYSIS | | |
| 3.1 Does this system meet one of the criteria below? If "Yes", then check the applicable criteria, insert the safety function(s) and safety analysis reference(s), and go to Section 4.0 and designate the system as ML-1. | | Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> |
| <ul style="list-style-type: none"> • The system is an SSC of a Hazard Category 2 or 3 Nuclear Facility that performs Documented Safety Analysis (DSA) designated Safety Class (SC) function(s). <input type="checkbox"/> • The system is an SSC of an Accelerator Facility that performs Safety Assessment Document (SAD) designated public protection function(s). <input type="checkbox"/> • The system is an SSC of a High Hazard Nonnuclear Facility that performs function(s) identified in the Facility Safety Analysis (FSA) for protection of the public. <input type="checkbox"/> | | |
| If "No" is checked then go to Field 3.2 | | |
| No. | SC or public protection functions as defined by Safety Analysis | DSA, SAD, or FSA Reference |
| 3.1-1 | N/A | N/A |
| 3.1-2 | N/A | N/A |
| 3.1-3 | N/A | N/A |
| 3.2 Does this system meet one of the criteria below? If "Yes", then check the applicable criteria, insert the safety function(s) and safety analysis reference(s), and go to Section 4.0 and designate the system as ML-2. | | Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> |

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| <ul style="list-style-type: none"> ▪ The system is an SSC of a Hazard Category 2 or 3 Nuclear Facility that performs DSA designated Safety Significant (SS) function(s). <input type="checkbox"/> ▪ The system is an SSC of an Accelerator Facility that performs SAD designated worker protection function(s). <input type="checkbox"/> ▪ The system is an SSC of a High Hazard Nonnuclear Facility that performs function(s) identified in the FSA for protection of the uninvolved or noninvolved worker. <input type="checkbox"/> | | |
|--|---|----------------------------|
| If "No" is checked then go to Field 3.3. | | |
| No. | SS functions or worker protection functions as defined by Safety Analysis | DSA, SAD, or FSA Reference |
| 3.2-1 | N/A | N/A |
| 3.2-2 | N/A | N/A |
| 3.2-3 | N/A | N/A |
| 3.3 Does this system meet one of the criteria below? If "Yes", then check the applicable criteria, insert the function(s) and safety analysis or Facility Management reference(s), and go to Section 4.0 and designate the system as ML-3. Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> | | |

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| <ul style="list-style-type: none"> ▪ The system is an SSC of a Hazard Category 2 or 3 Nuclear Facility that is designated Other Hazard Control (OHC) in the DSA. <input type="checkbox"/> ▪ The system is an SSC that performs function(s) for protection of Category I or II Special Nuclear Material (SNM) or Classified Matter as determined by the Facility Management. <input type="checkbox"/> ▪ The system is an SSC of a Moderate Hazard Nonnuclear Facility that performs function(s) identified in the FSA for protection of uninvolved or noninvolved worker <u>and</u> the Facility Management requires enhanced engineering, quality, or maintenance support above national codes and standards requirements. <input type="checkbox"/> ▪ The system is an SSC that performs important function(s) for compliance with Waste Acceptance Criteria (WAC) for a Waste Receiving Site and as determined by the Facility Management. <input type="checkbox"/> ▪ The system is an SSC that performs function(s) for radiation protection that are not covered in the Radiation Protection Safety Management Program (SMP) and are considered important to normal, abnormal, or emergency response by the Facility Management <input type="checkbox"/> The system is an SSC that performs function(s) for environmental protection that are called out in a permit or used to demonstrate environmental compliance that are considered important by the Facility Management. (See discussion below) <input checked="" type="checkbox"/> ▪ The system is an SSC that performs function(s) that are essential to the facility mission as determined by the Facility Management. <input type="checkbox"/> <p><i>Evaluation.</i> This MLDS is for the overall Multi-Sector General Permit (MSGP) Program at LANL, which is responsible for monitoring the storm water discharges at the outfalls to meet Water Quality Standards. The MSGP Program is responsible for the following:</p> <ul style="list-style-type: none"> • Determines inspection requirements, how often to conduct these inspections and what to monitor for; • Evaluates sample results and compares those results to established effluent limits; • Provides storm water discharge summary reports to the associated enforcement agencies at a predetermined reporting frequency; • Works with the enforcement agencies to address identified issues. <p>In summary, this MLDS is associated with a program and not equipment. There is nothing in the program that would require it to be elevated to ML-3. While the program may rely on equipment to support permit requirements, the equipment (as applicable) should be evaluated separately from the program to determine the appropriate management level.</p> |
|---|

If "No" is checked then go to Field 3.4

| No. | OHC Functions defined by Safety Analysis or other ML-3 functions as determined by Facility Management | DSA or Facility Management Reference |
|-------|---|--------------------------------------|
| 3.3-1 | Obtain permit coverage (NOI) and modification | N/A |
| 3.3-2 | Permit implementation | N/A |
| 3.3-3 | Compliance inspections | N/A |
| 3.3-4 | Data management | N/A |

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| 3.3-5 | Reporting | N/A |
| 3.4 If the System does not meet any of the criteria in fields 3.1, 3.2, or 3.3, then designate the system as ML-4 in Section 4.0. | | |

| | | | |
|--|-------------------------------|-------------------------------|--|
| 4.0 SYSTEM MANAGEMENT LEVEL DESIGNATION | | | |
| ML-1 <input type="checkbox"/> | ML-2 <input type="checkbox"/> | ML-3 <input type="checkbox"/> | ML-4 <input checked="" type="checkbox"/> |

| | |
|--|---|
| 5.0 APPROVALS | |
| 5.1 Responsible Engineer (Name, Z Number, Organization, Signature, and Date) | Terrill Lemke, 120092, EPC-CP <i>Terrill Lemke</i> 4/25/19 |
| 5.2 Verifier (Name, Z Number, Organization, Signature, and Date) | Taunia Van Valkenburg, 145666, EPC-CP <i>Taunia Van Valkenburg</i> 12/11/19 |
| 5.3 Facility Design Authority Representative (Name, Z Number, Organization, Signature, and Date) | Jason Apperson, 222827, ES-DO <i>Jason Apperson</i> 12/12/19 |

| 6.0 REVISIONS | | | | | |
|----------------------|------|----------------|----|----------|------|
| Rev. No. | Date | Description | RE | Verifier | FDAR |
| 0 | | Original Issue | | | |
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Attachment 1: Summary of QA Requirements and Program-Level (Local) Work Practices

| Summary of QA Requirements and Program-Level (Local) Work Practices | | |
|--|---|--|
| DOE Order 414.1D/SD 330 Requirements | LANL Work Practice | Local Implementing Procedure or QAP section (if applicable) |
| CRD Attach. 2, 1. Criterion 1 – Management/Program | LANL organization chart; SD100, <i>Integrated Safety Management System Description</i> ; PD100, <i>DOE/NNSA Approved Los Alamos National Laboratory</i> ; 10 CFR 851, <i>Worker Safety and Health Program</i> | EPC-CP organization chart; EPC-DO-QP-100; EPC-CP-IWD-2102 |
| CRD Attach. 2, 2. Criterion 2 – Management/Personnel Training and Qualification | PD781, <i>Training Program Management</i> ; P1040, <i>Software Quality Management</i> | EPC-CP-QAP-001; EPC-CP Manager Qualification Standard EPC-CP Group Qualification Standard EPC-CP-QS-2005; EPC-CP-QS-2006; EPC-CP-QS-2007 |
| CRD Attach. 2, 3. Criterion 3 – Management/Quality Improvement | P101-18, <i>Procedure for Pause/Stop Work</i> ; PD322-4, <i>Issues Management</i> ; PD324, <i>LANL Metrics Program</i> ; P330-6, <i>Nonconformance Control and Reporting</i> | EPC-CP-QAP-001 |
| CRD Attach. 2, 4. Criterion 4 – Management/Document and Records | PD1020, <i>Document Control and Records Management</i> | ADESH-QAP-001; ESH-AP-006; ESH-AP-007; EPC-CP-QP-0901 |
| CRD Attach. 2, 5. Criterion 5 – Performance/Work Processes | SD100, <i>Integrated Safety Management System Description Document with embedded 10 CFR 851 Worker Safety and Health Program</i> ; PD100, <i>DOE/NNSA Approved Los Alamos National Laboratory</i> ; 10 CFR 851 <i>Worker Safety and Health Program Description</i> ; P151-1, <i>LANL Packaging and Transportation Program Procedure</i> ; PD311, <i>Requirements System and Hierarchy</i> ; | EPC-CP-PIP-2101, <i>NPDES Multi-Sector General Permit Program Implementation Plan</i> ; EPC-CP-TP-2102, <i>Installing, Setting Up, and Operating ISCO Samplers</i> ; EPC-CP-TP-2103, <i>Inspecting ISCO Stormwater Runoff Samplers and Retrieving Samples</i> ; EPC-CP-QP-2104, <i>Installing, Inspecting, and Maintaining MSGP Single Stage Samplers</i> |

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| Summary of QA Requirements and Program-Level (Local) Work Practices | | |
|--|---|---|
| DOE Order 414.1D / SD 330 Requirements | LANL Work Practice | Local Implementing Procedure or QAP section (if applicable) |
| | SD330, <i>Los Alamos National Laboratory Quality Assurance Program</i> ; PD340, <i>Conduct of Engineering for Facility Work</i> ; P315, <i>Conduct of Operations Manual</i> ; P330-2, <i>Control and Calibration of Measuring and Test Equipment (M&TE)</i> ; SD601, <i>Conduct of Research and Development</i> ; PD781, <i>Training Program Management</i> P1040, <i>Software Quality Management</i> | EPC-CP-QP-2105, <i>MSGP Stormwater Visual Assessments</i> ; EPC-CP-QP-2106, <i>Processing MSGP Stormwater Samples</i> ; EPC-CP-QP-2107, <i>Preparing Discharge Monitoring Reports for the NPDES Multi-Sector General Permit</i> ; EPC-CP-QP-2108, <i>MSGP Routine Facility Inspections</i> ; EPC-CP-QP-2109, <i>MSGP Corrective Actions</i> ; EPC-CP-QP-2110, <i>MSGP Stormwater Pollution Prevention Plan Preparation and Maintenance</i> |
| CRD Attach. 2, 6. Criterion 6 – Performance/Design | <u>For Facility Work:</u> PD340, <i>Conduct of Engineering and Configuration Management for Facility Work</i> ; P341, <i>Facility Engineering Processes Manual</i> ; P342, <i>Engineering Standards</i> ; Engineering Standards Manual; Functional Series documents; Engineering Administrative Procedures <u>For R&D:</u> PD370, <i>Conduct of Engineering for Research and Development (R&D)</i> | No local implementing procedures, LANL Work Practices apply. |
| CRD Attach. 2, 7. Criterion 7 – Performance/Procurement | P840-1, <i>Quality Assurance for Procurements</i> ¹ | No local implementing procedures, LANL Work Practices apply. |
| CRD Attach. 2, 8. Criterion 8 – Performance/Inspection and Acceptance Testing | P330-8, <i>Inspection and Test</i> ³ ; P330-2, <i>Control and Calibration of Measuring and Test Equipment (M&TE)</i> | No local implementing procedures, LANL Work Practices apply. |

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Summary of QA Requirements and Program-Level (Local) Work Practices

| DOE Order 414.1D / SD 330 Requirements | LANL Work Practice | Local Implementing Procedure or QAP section (if applicable) |
|---|---|--|
| CRD Attach. 2, 9. Criterion 9 – Assessment/Management Assessment | PD328, <i>LANL Assessment Program</i> ; P328-3, <i>Management Assessment</i> ; P328-4, <i>Management Observation and Verification</i> | ADESH-QAP-001 EPC-CP-QAP-001 |
| CRD Attach. 2, 10. Criterion 10 – Assessment/Independent Assessment | PD328, <i>LANL Assessment Program</i> ; P328-2, <i>Independent Assessment</i> ; P328-4, <i>Management Observation and Verification</i> | No local implementing procedures, LANL Work Practices apply. |
| CRD Attach. 3, Suspect/Counterfeit Items Prevention | P330-9, <i>Suspect/Counterfeit Items (S/CI)</i> ¹ | No local implementing procedures, LANL Work Practices apply. |
| CRD Attach. 4, Safety Software Quality Assurance Requirements for Nuclear Facilities ² | P1040, <i>Software Quality Management</i> ² ; Form 2033, <i>Safety Non-Safety Software Determination, Categorization, and Software Risk Level</i> | No local implementing procedures, LANL Work Practices apply. |

¹ S/CI prevention is also integrated into other listed work processes. Application of the S/CI oversight and prevention process is commensurate with the facility/activity hazards and mission impact. The extent of applicability of S/CI prevention for ML-4 items is as described in P840-1, *Quality Assurance for Procurements*, and P330-9, *Suspect/Counterfeit Items (S/CI)*.

² DOE Order 414.1D, Chg 1, *Quality Assurance*, Attachment 1 requires that all software meet the applicable quality assurance requirements in Attachment 2 of DOE Order 414.1D, Chg 1, using a graded approach. LANL uses risk levels to grade safety software and risk significant non-safety software. See P1040, *Software Quality Management*, for additional detail.

³ For ML-4 items and activities, inspections and tests are performed to extent required by the applicable codes and/or standards.

⁴ Core work practices applicable to R&D are described in SD601, *Conduct of Research and Development*.

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Attachment 2: MSGP Facilities Associated with Industrial Activities

(Page 1 of 1)

| MSGP Facilities Associated with Industrial Activities | | | | | | |
|--|-----------------------------------|------------------------------|---|---------------|--------------------------------|---------------------|
| Location | Permitted Facility | Operation | Activity | Sector | Assessment Unit | Canyon |
| TA-3-38 | TA-3-38 Metals Fab Shop | Metal Shop | Fabricated metal products | AA1 | NM-9000.A_047 | Sandia |
| TA-09-0214 | TA-09-0214 Metal Fabrication Shop | Metal Shop | Fabricated metal products | AA1 | NM-128.A_16 | Arroyo de la Delfe |
| TA-16 | Stockpile Area | Materials Storage | Materials storage | P1 | NM-128.A_01 | Canyon de Valle |
| TA-60 | TA-60 Asphalt Batch Plant | Asphalt Batch Plant | Asphalt paving | D1 | NM-9000.A_042 | Mortandad |
| TA-60 | TA-60 MRF | Materials Recycling Facility | Scrap recycling | N2 | NM-9000.A_047 | Sandia |
| TA-60 | TA-60 Roads and Grounds | Roads and Grounds Facility | Vehicle maintenance and storage | P1 | NM-9000.A_042 NM-9000.A_047 | Mortandad Sandia |
| TA-60-1 | TA-60-1 Heavy Equipment Yard | Motor Pool and Metal Shop | Vehicle maintenance and fabricated metal products | P1 and AA1 | NM-9000.A_047 | Sandia |
| TA-60-2 | TA-60-2 Warehouse | Warehousing | Vehicle fueling | P1 | NM-9000.A_047 | Sandia |

ATTACHMENT 16: EPC-CP-QP-2108, MSGP ROUTINE FACILITY INSPECTIONS

| | | |
|----------------------------|------------------------------|---|
| EPC-CP-QP-2108 | Revision: 0 |  |
| Effective Date: 07/09/2020 | Next Review Date: 07/09/2023 | |

Environment, Safety, Health, Quality, Safeguards, and Security Directorate
Environment Protection and Compliance – Compliance Programs Group
Quality Procedure

MSGP Routine Facility Inspections

Hazard Grading: Low Moderate High/Complex

Usage Level: Reference UET Mixed: UET Sections: _____

Status: New Major Revision Minor Revision

Review w/No Changes Other: New EPC-CP format & numbering system

Safety Basis: N/A USQ USI Number: _____

Document Author/Subject Matter Expert:

| | | | |
|------------------|---------------|-------------------|----------|
| Name: | Organization: | Signature: | Date: |
| Holly L. Wheeler | EPC-CP | Signature on File | 07-08-20 |

Derivative Classifier: **Unclassified** or _____

| | | | |
|------------------|---------------|-------------------|----------|
| Name: | Organization: | Signature: | Date: |
| Steven E. Wolfel | EPC-CP | Signature on File | 07-08-20 |

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|-------------------------------------|---------------|-------------------|----------|
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REVISION HISTORY

| Document Number and Revision <i>[Include revision number, beginning with Revision 0]</i> | Effective Date <i>[Document Control Coordinator inserts effective date]</i> | Description of Changes <i>[List specific changes made since the previous revision]</i> |
|--|---|---|
| EPC-CP-QP-023 R0 | 05/17/2018 | New Document. Process formerly part of procedure ENV-RCRA-QP-022 R2, <i>MSGP Corrective Actions</i> . |
| EPC-CP-QP-023 R1 | 03/07/2019 | Added question to inspection form, associated text to document, and renumbered steps. Removed reference to Los Alamos National Security, LLC. Added reference to LANL BMP Manual. Minor edits made. |
| EPC-CP-QP-2108, R0 | 07/09/2020 | Supersedes EPC-CP-QP-023 R1. Reformat to new EPC-CP template, re-number procedure and forms to new EPC-CP procedure numbering system, and other edits. |

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1.0 INTRODUCTION

The National Pollutant Discharge Elimination System (NPDES) Multi-Sector General Permit (MSGP), also referred to as the permit, contains specific environmental requirements for inspecting areas of Los Alamos National Laboratory (LANL) covered by the permit. This includes areas where industrial materials or activities are exposed to stormwater, areas identified as potential pollutant sources, areas where leaks and spills have occurred in the past three years, discharge points, and control measures used to comply with the effluent limits of the MSGP.

LANL inspectors and facility personnel are required to perform routine facility inspections for industrial stormwater discharge on LANL areas covered by the MSGP at least quarterly and document observations. Conditions (as described by the MSGP) found during an inspection, requiring a corrective action(s), are managed through EPC-CP-QP-022, *MSGP Corrective Actions*.

1.1 Purpose

Part 3.1 of the MSGP contains specific requirements for conducting and documenting periodic industrial routine facility inspections. This procedure governs the activities of personnel involved in conducting industrial routine facility inspections. It also contains information and specific steps to be used for identifying and documenting conditions in order to meet the permit requirements.

1.2 Scope

Requirements set forth in this document apply to personnel responsible for meeting the permit conditions on behalf of LANL industrial facilities covered by the MSGP. The MSGP requires periodic inspection of facilities and identification, documentation, and reporting of conditions, including those requiring corrective actions.

Inspections conducted under this procedure are documented using the Maintenance Connection Express™ (MC Express) web application on a tablet or notebook style computer. (In the event of electronic hardware or web application failure, personnel may use a printed hard copy to conduct the inspection.)

1.3 Applicability

This procedure applies to Environmental Protection and Compliance–Compliance Programs (EPC-CP) technical staff, Deployed Environmental Professionals (DEPs), and other LANL staff who conduct inspections and monitoring activities at MSGP regulated LANL facilities.

2.0 ROLES AND RESPONSIBILITIES

Specific roles and responsibilities for implementation of requirements contained in this procedure are provided below.

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2.1 EPC-CP MSGP Stormwater Permitting and Compliance Team

EPC-CP MSGP Stormwater Permitting and Compliance personnel are fully knowledgeable of the specific regulatory requirements identified in the MSGP and are responsible for the following:

- Implementing this procedure;
- Performing routine facility inspections the last month or quarter of the year at regulated sites [depending on inspection frequency identified in site-specific Stormwater Pollution Prevention Plans (SWPPPs)];
- Performing “no exposure” site inspections once a year to ensure conditions of the “no exposure” exclusion are met;
- Performing routine facility inspections at inactive sites once a year;
- Identifying issues requiring a corrective action during any of the above inspections or assessments;
- Determining a condition of non-compliance;
- Notifying managers or legal counsel of non-compliances;
- Modifying the site-specific MSGP Routine Facility Inspection Forms (e.g., add or remove Best Management Practices (BMPs));
- Training personnel to use MC Express;
- Performing a quality review of routine facility inspections and “no exposure” site inspections; and
- Assisting customers with issues associated with MC Express.

2.2 Deployed Environmental Professionals

DEPs are responsible for the following:

- Implementing this procedure;
- Knowledgeable of the requirements contained in site-specific SWPPPs within their assigned Facility Operations Directorate (FOD);
- Meeting qualification requirements identified in the Quality Assurance Project Plan EPC-CP-PIP-2101, NPDES *Multi-Sector General Permit Program Implementation Plan*;
- Being trained on EPC-CP-QP-022, *MSGP Corrective Actions*;
- Being trained to *MSGP Routine Inspections OJT*;
- Being familiar with industrial site and facility operations assigned to them so that they minimize sources of pollutants and pro-actively maintain controls to prevent issues that require corrective action;

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- Performing routine facility inspections throughout the year at regulated sites within their FOD (depending on inspection frequency identified in site-specific SWPPPs) and documenting results accurately;
- Acting as liaison between the FOD, Deployed Environment, Safety, and Health (DESH) Manager and facility/operations personnel to ensure corrective actions are addressed appropriately by overseeing maintenance and/or installation of additional controls;
- Educating appropriate facility/operations personnel on the MSGP and site-specific SWPPPs so they successfully implement the conditions of the permit; and
- Notifying EPC-CP MSGP stormwater personnel when additional or substitute BMPs have been installed or old BMPs have been removed so the site-specific MSGP Routine Facility Inspection Form can be modified.

2.3 EPC-CP Stormwater Permitting and Compliance Team Leader

The EPC-CP Stormwater Permitting and Compliance Team Leader is responsible for compliance oversight relative to the MSGP. The Team Leader works with the EPC-CP Group Leader to ensure adequate resources needed to implement the regulatory requirements identified in the MSGP are identified and environmental risks are assessed. The Team Leader will notify upper management of these required resources or environmental risks, as deemed necessary. In the event there is a dispute regarding the regulatory requirements contained in the MSGP, the Team Leader makes the final determination of the required action. The Team Leader notifies upper management of instances of non-compliance with the permit.

2.4 EPC-CP Group Leader

The EPC-CP Group Leader or designee is responsible for ensuring there are adequate resources to implement the regulatory requirements identified in the MSGP. The Group Leader or Team Lead also acts as the duly authorized signatory that certifies the Annual Report and MSGP Routine Facility Inspections conducted by EPC-CP personnel. The Group Leader notifies upper management of instances of non-compliance with the permit or other identified environmental risk.

2.5 DESH Manager

The DESH manager works with programmatic entities and the FOD to identify adequate resources for their industrial facilities to ensure permit requirements can be implemented. The DESH Manager is responsible for the performance of DEPs under their management and to ensure DEPs are trained and qualified. They also provide oversight by ensuring that industrial facilities complying with the MSGP and will notify upper management of instances of non-compliance with the permit or other identified environmental risk.

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3.0 PRECAUTIONS AND LIMITATIONS

3.1 Precautions

The hazard rating for the activities described in this procedure is **LOW** and therefore, does not require an Integrated Work Document (IWD).

Personnel must wear appropriate clothing (e.g., boots, long pants, etc.) to perform work in the field.

Work may be discontinued during periods or conditions that make sites dangerous for worker safety or prevent personnel from safely accessing sites (e.g., weather-related events such as flash floods, flooding, lightning, wildfires, hail, icy roads, deep snow, or LANL operations such as firing shots or burns).

If conditions prevent fieldwork, document the conditions on the work order. Multiple attempts can be documented on the original form. If the target date cannot be met, the field personnel must contact the Program Lead no less than 24 hours before the target date for guidance.

3.2 Limitations

In MC Express, document responses to each question on a work order by clicking the expand arrow located on the right side of the task line and changing the "Complete" or "Failed" line to "Yes." When using a hard copy form, mark the appropriate "Yes" or "No" check box.

Throughout this process, the field personnel will document comments and notations in the "Comments" field of the associated task line. If field personnel need more space, additional comments can be entered in the "Labor Report Update" field (see Section 5.2) when the work order is updated to "Complete" status. When using a hard copy form, document comments on the corresponding task line. If additional space is needed, comments can be entered in the "Labor Report" section at the bottom of the form.

Some terminology varies between the MC Express software and the Maintenance Connection (MC) desktop software.

- The "Reading" field in MC Express is the same field as "Reading Final" in MC desktop and "Meas." on a hard copy (printed) work order.
- The "Complete" option in MC Express is the same as a "Yes" answer; the "Failed" option in MC Express is the same as a "No" answer. MC desktop and hard copy (printed) work orders use "Yes" and "No" terminology.

Click the "Save" bar after all entries for a task line question have been completed and before proceeding to the next task line question. Failure to "Save" results in lost data entries.

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4.0 PREREQUISITE ACTIONS

4.1 Planning and Coordination

1. Schedule work to be completed by the target date appearing on the inspection form or as requested by the MSGP Program Lead if an inspection form is not issued.
2. Inform (e.g., by e-mail) facility contacts (as needed) of the schedule for facility inspection work and locations up to a week (preferred) before but no later than the day before (for minor changes) to be added to the appropriate plan of the day (as necessary).
3. Gather the necessary equipment (see Section 4.2) for the work to be done.
4. Using the Safari or Chrome web browser on a tablet or notebook style computer, log into the MC Express application (<http://express.maintenanceconnection.com>) and confirm that the work order list displayed matches your sites. If the work order lists do not match, contact EPC-CP Data Management personnel for clarification.
5. In MC Express, click on the appropriate work order number to open the work order. The work order will open in the display to the Work Order Summary page.
6. Click on the “Tasks” bar to navigate to the work order Tasks page. See MC Express screen shot examples in Attachment 1.
7. Always log out of MC Express when you have finished work OR if work is interrupted.

4.2 Special Tools, Equipment, Parts, and Supplies

Ensure the following equipment is available.

- Sturdy hiking boots or steel-toed shoes with soles that grip.
- Facility-specific PPE as required by IWD Part II.
- Cell phone (Only government cell phones are allowed in secure areas. See <https://int.lanl.gov/policy/documents/P217.pdf> for requirements for using portable electronic devices on Laboratory property.)
- Copy of this procedure.
- Copy of facility specific SWPPP and map(s) (as needed).
- Current electronic or paper inspection form EPC-CP-QP-2108 R0 Form 1, *MSGP Routine Facility Inspection*.
- LANL issued tablet or notebook style computer with Safari web browser and Blackberry UEM™ app (see <https://int.lanl.gov/policy/documents/P217.pdf> for requirements for using portable electronic devices on Laboratory property).
- Necessary access keys.

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5.0 MSGP ROUTINE FACILITY INSPECTIONS

MSGP routine facility inspections are conducted by the DEP or other qualified facility personnel (as defined in the MSGP or as determined by MSGP Program Lead) during periods when the facility is in operation and during standard operating hours. Results of visual and analytical monitoring for the past year must be considered when planning and conducting an inspection. The inspections are performed on the following facility areas:

- Areas where industrial materials or activities are exposed to stormwater;
- Areas identified in the SWPPP and those that are potential pollutant sources;
- Areas where spills and leaks have occurred in the past;
- Discharge points; and
- Control measures used to comply with the effluent limits contained in the MSGP.

Routine facility inspections are conducted at least quarterly; however, some facilities may conduct monthly inspections (as specified in the facility specific SWPPP). At least once each calendar year, the routine facility inspections must be conducted during a period when stormwater discharge (either rain or snow) is occurring. During the inspection, you must look for the following:

- Industrial materials, residue or trash that may have or could come into contact with stormwater;
- Leaks or spills from industrial equipment, drums, tanks and other containers;
- Offsite tracking of industrial or waste materials, or sediment where vehicles enter or exit the site;
- Tracking or blowing of raw, final or waste materials from areas of “no exposure” to exposed areas; and
- Control measures that need replacement, maintenance or repair.

Conditions requiring corrective action identified during an inspection, monitoring, or other means must be entered into the MSGP Corrective Action Report database by the DEP(s), EPC-CP stormwater personnel and/or other qualified facility personnel (as defined in the MSGP or as determined by MSGP Program Lead). Follow the process in EPC-CP-QP-022, *MSGP Corrective Actions* to address issues found during an inspection.

If the industrial facility is inactive and unstaffed and there are no industrial materials or activities exposed to stormwater, routine inspections may not be required. A determination of whether a facility is inactive or unstaffed is made in coordination with stormwater personnel from EPC-CP, as there are specific documentation and certification requirements that have to be met prior to discontinuing routine inspections. Such a facility is only required to conduct an annual site inspection.

If the industrial facility is eligible for a “no exposure” exclusion, routine inspections are no longer required. A condition of “no exposure” exists when all industrial materials and activities are

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protected by a storm resistant shelter (e.g., moved to an indoor location) to prevent exposure to rain, snow, snowmelt, and/or runoff. A determination of whether a facility is eligible for “no exposure” status is made in coordination with stormwater personnel from EPC-CP, as there are specific documentation and certification requirements that have to be met prior to discontinuing routine inspections. Such a facility is only required to conduct an annual site evaluation and recertification every five years.

5.1 Conducting the Inspection

See Attachment 1 for screen shot examples of EPC-CP-QP-2108 R0 Form 1, *MSGP Routine Facility Inspection* in MC Express. See Attachment 2 for an example of the inspection form in hard copy format. **Questions will be answered “Yes/Complete” or “No/Failed” unless the instructions specify “N/A” may also be used.**

NOTE: Each item number listed in red font below corresponds to a red numbered box on both screenshots and hard copy format.

- [1] **ITEM 1:** Observe the weather at time of inspection. Document the weather and temperature in the “Comments” field of the task line (e.g., Temp. 78°F, sunny, wind less than 5mph).
- [2] **ITEM 2:** Observe and document the facility is free of **previously** unidentified discharges from and/or pollutants that have occurred **since the last inspection**. Describe any new discharges and the specific location in the “Comments” field of the task line.
- [3] **ITEM 3:**
IF the response to **ITEM 2** is “Yes”,
THEN answer this task line as “N/A”.
OR
IF the response to **ITEM 2** is “No”,
THEN answer this task line as “Yes” and document the corrective action previously initiated for the discharge.
- [4] **ITEM 4:** Check the facility is free of discharges of pollutants at the time of inspection. Describe any pollutant discharge and the specific location in the “Comments” field of the task line.
- [5] **ITEM 5:** Check the facility is free of evidence of pollutants entering the drainage system OR the potential for pollutants entering the drainage system. Describe any discharge or potential discharge and the specific location in the “Comments” field of the task line.
- [6] **ITEM 6:** Check the outfall does not have any **new** evidence of erosion **since the last inspection**. Describe any erosion observed in the “Comments” field of the task line.

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- [7] **ITEM 7:** Check all flow dissipation devices are operating effectively and are not in need of repair. Describe any non-functional status of devices in the “Comments” field of the task line (e.g., repair berm, replace rip rap, etc.).
- [8] **ITEM 8:** Check the outfall is free of evidence of pollutants in the discharge and/or the receiving water. Describe any pollutants observed in the “Comments” field of the task line (e.g., sediment from nearby erosion, etc.).
- [9] **ITEM 9:** Check the outfall is free of unauthorized non-stormwater discharges. Describe any unauthorized discharges observed in the “Comments” field of the task line (e.g., street sweeper emptied contents at Outfall 001, etc.).
- [10] Repeat Steps 6 through 9 for each outfall shown on the work order, if the location has more than one outfall.
- [11] **ITEM 10:** Check each control measure is operating effectively. Describe any non-operational condition of the control measure (e.g., erosion, damage, etc.,) and if the control measure needs maintenance, repair, or replacement in the “Comments” field of the task line.
- [a] Determine if additional controls are necessary, or that existing controls are insufficient and require replacement with a different type of control.
- [b] The DEPs are responsible for the selection and oversight of proper installation of appropriate control measures per guidance provided in the LANL Stormwater BMP Manual.
- [12] Repeat Step 11 for each control measure shown on the work order, if the location has more than one control measure.
- [13] **ITEM 11:** Check each sector of NPDES specified industrial area/activity is inspected for exposure to stormwater (e.g., metal fabrication; foundry operations; power generation; asphalt production; fabricating timber products; material recycling; warehouse and transportation activity; treatment and storage of hazardous waste).
- [a] Determine if the control measures associated with each industrial area/activity are appropriate for the activity, effectively controlling stormwater exposure, and operating.
- [b] Describe any non-operational condition of the control(s) and needed maintenance or a description of corrective actions in the “Comments” field of the task line.
- [c] For industrial activities that do not occur at the facility, select “N/A” on that task line.
- [14] Repeat Step 13 for each industrial area/activity shown on the work order, if the facility has more than one sector of NPDES specified industrial area/activity.

| | | |
|--|--------------------|----------------------------|
| MSGP Routine Facility Inspections | No: EPC-CP-QP-2108 | Page 12 of 21 |
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- [15] **ITEM 12:** Check the facility is free of any incidence of non-compliance not documented elsewhere on the inspection form. Describe any additional incidences of non-compliance in the “Comments” field of the task line.
- [16] **ITEM 13:** Check the facility meets the MSGP requirements with existing control measures. Describe any additional control measures needed to comply with the Permit.
- [17] After all task lines have been completed, make sure you have clicked the “Save” bar at the bottom of the page.

5.2 Completing the Inspection Form

See Attachment 1 for completing EPC-CP-QP-2108 R0 Form 1 in MC Express and Attachment 2 for a hard copy example.

- [1] Ensure the inspection form has been filled out completely.
- [2] Click the “Back” arrow button  in the upper left hand corner to exit the work order Tasks page and return to the Work Order Summary page.
- [3] Click the checkered flag  in the upper right corner of the work order Summary page to open the Work Order Status Update page. MC Express auto-populates the date and time fields.

CAUTION

MC Express automatically changes the work order status to “Closed.”

- [4] **ITEM 14:** Click on the expand arrow located on the right side of the “New Status” field and select “Completed” from the available dropdown menu.
 - [a] Ensure the date and time that is auto-populated are the date and time that the **work was completed** and **not the date/time the form was filled out**.
 - [b] IF work needs to be performed over multiple days, THEN note the date and time the work began in the Labor Report field.
 - [c] To update the date or time, click the “Date” field and make necessary adjustments using the available timestamp application. Click “Set” to apply changes.
 - [d] IF using a hard copy form, THEN write the date and time the work was completed.
- [5] **ITEM 15:** The field personnel must type or write his/her name in the “Labor Report Update” field.
- [6] Additional notes, observations, or site conditions not documented in a task line “Comments” field can be documented in the “Labor Report Update” field.

| | | |
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| MSGP Routine Facility Inspections | No: EPC-CP-QP-2108 | Page 13 of 21 |
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- [7] Scroll down the page to the “Signature” bar and click the expand arrow on the left side of the bar to open the “Signature” field.
 - [a] **ITEM 16:** Capture an electronic signature by drawing with a finger on the tablet screen.

NOTE: The mouse must be used to sign electronically when using MC Express on a desktop screen (not a tablet).
 - [b] If using a hard copy form, the field personnel will sign his/her name and write in the date of when the form was signed.
 - [c] By electronically signing the work order, field personnel certifies that the information submitted is “true, accurate, and complete.”
- [8] Click on the “Save” bar at the bottom of the page to close the “Signature” field.

5.3 Completing the Certification Statement

Follow Steps 1 through 5 in this section if the inspection form was completed electronically (see Attachment 1). If the inspection form was completed on a hard copy form, skip to Step 6.

- [1] Using the Chrome web browser on a desktop computer, navigate to <http://www.maintenanceconnection.com>. Log into the MC desktop application using your login credentials.
- [2] Click “Open” in the tool bar at the top of the page to open the MC module selections. Click on the “Work Orders” module.
- [3] Click on the “Search” tab at the top left of the page.
 - [a] Enter the work order number in the “Search Value” field.
 - [b] Click the arrow to the right of the “Search Value” field to open the work order in the right split screen.
- [4] Click on the “Report” tab at the top of the page and click the “Work Order Statement” sub-tab.
- [5] Click the Tools drop down menu  in the top right corner of the page.
 - [a] Select “Print” from the options.
 - [b] When the print dialog box opens, select the print options as appropriate for your local printer.
- [6] **ITEM 17:** Obtain a printed name and title, signature, and date on the certification statement.

The certification statement will be signed no more than 14 days after completion of the inspection and a copy sent to the EPC-CP Program Lead or designee.

| | | |
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| MSGP Routine Facility Inspections | No: EPC-CP-QP-2108 | Page 14 of 21 |
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- [a] The routine facility inspection form must be certified with a signature from a manager that meets the definition of a signatory in MSGP Permit Section B.11.A (e.g., FOD, Operations Manager, DSESH Group Leader, EPC-CP Group Leader, EPC-CP Team Lead).
- [b] The manager is certifying the information submitted is “true, accurate, and complete” by signing the inspection form.
- [7] Attach the completed, signed, and certified inspection form to the facility SWPPP.
- [8] Submit a copy of the completed form to the MSGP Program Lead.

6.0 TRAINING

The following personnel require training before implementing this procedure.

- DESH Group and Team Leaders
- EPC-CP MSGP stormwater compliance personnel
- DEPs
- Other personnel identified as being required to conduct stormwater assessments as part of their job duties

All EPC-CP personnel that execute the activities specified in this procedure must meet the minimum qualification and training requirements for their position as identified EPC-CP-PIP-2101, NPDES *Multi-Sector General Permit Program Implementation Plan*. This will include “self-study” (required reading) for this procedure as assigned and documented in accordance with ADOSH-TPP-301, *ADESH Training Program Plan*.

Contract personnel that execute the activities specified in this procedure will be qualified and trained as required by the Exhibit D and Exhibit F. In addition, contract personnel will be required to complete “self-study” (required reading) of this procedure.

7.0 RECORDS

MSGP Routine Facility Inspection forms are signed and certified by individual LANL facilities. These completed forms are maintained in the facility’s SWPPP and managed by the facility’s document management system. The MSGP team may retain a copy for reference purposes.

Below are records generated as a result of implementing this procedure. Records generated are identified by title and type.

| Record Title | QA Record | Non-QA Record |
|---|-------------------------------------|--------------------------|
| EPC-CP-QP-2108 R0 Form 1, <i>MSGP Routine Facility Inspection</i> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

| | | |
|--|--------------------|----------------------------|
| MSGP Routine Facility Inspections | No: EPC-CP-QP-2108 | Page 15 of 21 |
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8.0 DEFINITIONS AND ACRONYMS

8.1 Definitions

See LANL [Definition of Terms](#).

Best Management Practice (BMP) – Schedules of activities, prohibitions of practices, maintenance procedures, and other management practices to prevent or reduce the pollution of “waters of the United States.” BMPs also include treatment requirements, operating procedures, and practices to control plant site runoff, spillage or leaks, sludge or waste disposal, or drainage from raw material storage (*40 CFR Part 122.2*).

Control Measure – Any BMP or other method (including effluent limitations) used to prevent or reduce the discharge of pollutants to waters of the United States.

8.2 Acronyms

See LANL Acronym Master List.

| | |
|------------|---|
| BMP | Best Management Practice |
| EPC-CP | Environmental Protection and Compliance – Compliance Programs |
| DEP | Deployed Environmental Professional |
| DESH | Deployed Environment, Safety, and Health |
| FOD | Facility Operations Director |
| LANL | Los Alamos National Laboratory |
| MC | Maintenance Connection |
| MC Express | Maintenance Connection Express |
| MSGP | Multi-Sector General Permit |
| NPDES | National Pollutant Discharge Elimination System |
| SWPPP | Stormwater Pollution Prevention Plan |

9.0 REFERENCES

Federal Register, Final National Pollutant Discharge Elimination System (NPDES) General Permit for Stormwater Discharges from Industrial Activities. Federal Register: June 16, 2015, Volume 80, Number 115.

Los Alamos National Laboratory Storm Water BMP Manual

10.0 ATTACHMENTS

Attachment 1: Screenshot Examples of EPC-CP-QP-2108 R0 Form 1, *MSGP Routine Facility Inspection* in MC Express

Attachment 2: EPC-CP-QP-2108 R0 Form 1, *MSGP Routine Facility Inspection* Hard Copy Example

| | | |
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Attachment 1: Screenshot Examples of EPC-CP-QP-2108 R0 Form 1, MSGP Routine Facility Inspection in MC Express

(Page 1 of 3)

Work Order Tasks Page (Section 5.1, Steps 1-5)

MC Express

WORK ORDER: MSGP-RI-52112
Tasks

Tasks

Weather Information

20
1 Describe the weather at time of inspection and document the temperature (F°). ↓

Within the Facility Boundary

40
2 Is the facility free of previously unidentified discharges from and/or pollutants that have occurred since the last inspection If "No" describe. ↓

50
3 If "No" has a CAR been previously initiated for this new discharge? ↓

60
4 Is the facility free of discharge of pollutants at the time of inspection? If "No" describe. ↓

70
5 Is the facility free of evidence of, or the potential for, pollutants entering the drainage system. If "No" describe. ↓

Refresh List

Work Order Tasks Page (Section 5.1, Steps 6-9)

MC Express

WORK ORDER: MSGP-RI-52112
Tasks

Outfall Inspection (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant task comment)

90
6 Free of Evidence of Erosion? If "No", describe. Asset: [074] Monitored Outfall ↓

100
7 Flow Dissipation Devices Operating Effectively? If "No", describe. Asset: [074] Monitored Outfall ↓

110
8 Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. Asset: [074] Monitored Outfall ↓

120
9 Free of any unauthorized non-stormwater discharges? If "No" describe. Asset: [074] Monitored Outfall ↓

130
Free of Evidence of Erosion? If "No", describe. Asset: [073] Substantially Identical Outfall ↓

140
Flow Dissipation Devices Operating Effectively? If "No", describe. Asset: [073] Substantially Identical Outfall ↓

150
Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. Asset: [073] Substantially Identical Outfall ↓

160
Free of any unauthorized non-stormwater discharges? If "No" describe. Asset: [073] Substantially Identical Outfall ↓

Refresh List

| | | |
|--|--------------------|----------------------------|
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Attachment 1: Screenshot Examples of EPC-CP-QP-2108 R0 Form 1, MSGP Routine Facility Inspection in MC Express (cont.)

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Work Order Tasks Page (Section 5.1, Step 11)

← MC Express ☰

WORK ORDER: MSGP-RI-52112 Tasks

Control Measures (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant task comments).

- 180** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. Asset: [0300503040002] Asphalt Berm
- 190** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. Asset: [0300504060001] Rip Rap
- 200** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. Asset: [0300503200004] EnviroSoxx w/ MetalLoxx

Refresh List

Work Order Tasks Page (Section 5.1, Step 13)

← MC Express ☰

WORK ORDER: MSGP-RI-52112 Tasks

Area/Activity exposed to stormwater (identify needed maintenance or a description of corrective actions in relevant task comment).

- 220** Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.
- 230** Transfer areas for substances in bulk: controls adequate (appropriate, effective, and operating)? If "No" describe.
- 240** Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe.
- 250** Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe.

Refresh List

| | | |
|--|--------------------|----------------------------|
| MSGP Routine Facility Inspections | No: EPC-CP-QP-2108 | Page 18 of 21 |
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Attachment 1: Screenshot Examples of EPC-CP-QP-2108 R0 Form 1, MSGP Routine Facility Inspection in MC Express (cont.)

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Work Order Tasks Page (Section 5.1, Steps 15 and 16)

Work Order Status Update Page (Section 5.2, Steps 4-6)

Work Order Status Update Page (Section 5.2, Step 7)

Attachment 2: MSGP Routine Facility Inspection Hard Copy Example, EPC-CP-QP-2108 R0 Form 1
(Page 1 of 3)

Los Alamos National Laboratory

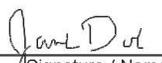
Work Order MSGP-RI-52112

MSGP Routine Inspection
Printed 1/23/2019 - 12:45 PM (Duplicate Copy)

| Maintenance Details | | |
|---|---|------------------------|
| Requested By: Admin, Jane on 1/23/2019 12:30:00 PM | Target: 12/31/2020 | MSGP Program |
| Taken By: Banar, Alethea | Priority/Type: / Inspection | RG121.9 |
| Procedure: MSGP Routine Facility Inspection (EPC-CP-QP-2108 R0 Form 1) | Department: Utilities and Infrastructure | TA-3-38 Carpenter Shop |
| Last PM: N/A | Contact: Admin, Jane | Phone: 123-4567 |
| Reason: Example MSGP Routine Facility Inspection | | |

| Tasks | | Meas. | No | N/A | Yes |
|---|---|-------|--------------------------|--------------------------|--------------------------|
| 1 | Weather Information 20 Describe the weather at time of inspection and document the temperature (F°). | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Within the Facility Boundary | | | | | |
| 2 | 40 Is the facility free of previously unidentified discharges from and/or pollutants that have occurred since the last inspection? If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3 | 50 If "No" has a CAR been previously initiated for this new discharge? | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4 | 60 Is the facility free of discharge of pollutants at the time of inspection? If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 5 | 70 Is the facility free of evidence of, or the potential for, pollutants entering the drainage system. If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Outfall Inspection (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant task comment) | | | | | |
| 6 | 90 Monitored Outfall [074] Free of Evidence of Erosion? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 7 | 100 Monitored Outfall [074] Flow Dissipation Devices Operating Effectively? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 8 | 110 Monitored Outfall [074] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 9 | 120 Monitored Outfall [074] Free of any unauthorized non-stormwater discharges? If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| | 130 Substantially Identical Outfall [073] Free of Evidence of Erosion? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| | 140 Substantially Identical Outfall [073] Flow Dissipation Devices Operating Effectively? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| | 150 Substantially Identical Outfall [073] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| | 160 Substantially Identical Outfall [073] Free of any unauthorized non-stormwater discharges? If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 10 | Control Measures (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant task comments). | | | | |
| | 180 Asphalt Berm [0300503040002] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| | 190 Rip Rap [0300504060001] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| | 200 EnviroSoxx w/ MetalLoxx [0300503200004] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 11 | Area/Activity exposed to stormwater (identify needed maintenance or a description of corrective actions in relevant task comment). | | | | |
| | 220 Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| | 230 Transfer areas for substances in bulk: controls adequate (appropriate, effective, and operating)? If "No" describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

Attachment 2: MSGP Routine Facility Inspection Hard Copy Example, EPC-CP-QP-2108 R0 Form 1 (cont.)
(Page 2 of 3)

| | | | | |
|---|---|--------------------------|--------------------------|--------------------------|
| 240 | Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 250 | Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 260 | Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 270 | Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 280 | Fueling areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 290 | Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 300 | Machinery: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 310 | Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 320 | Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 330 | Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 340 | Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 350 | Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 360 | Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 370 | Leaks and spills: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 380 | Sector A [03005-] Wood processing, transport or treated wood storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Non-Compliance | | | | |
| 12 | 400 Free of incidents of observed non-compliance not already identified above? If "No" describe. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Additional Control Measures | | | | |
| 13 | 420 Are permit requirements satisfied with existing control measure(s)? If "No" describe additional control measures needed. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Labor Report | | | | |
| 14 | Completed: 1/23/2019 10:39:00 AM | | | |
| 15 | Report: [Additional notes, observations, or site conditions not documented in Task Line Comments field] | | | |
| Jane Doe | | | | |
| 16 |  | 1/23/2019 | | |
| Signature / Name | | Date | Signature / Name | Date |
| I confirm the information as recorded is true, accurate and complete. | | | | |

| | | |
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**Attachment 2: MSGP Routine Facility Inspection Hard Copy Example, EPC-CP-QP-2108 R0 Form 1
(cont.)
(Page 3 of 3)**

CERTIFICATION STATEMENT

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations".

(Signatory must meet definition in Section B.11.A, eg., FOD, Ops Mgr, DESH Group Leader, EPC Group Leader)

17 Print name and title: _____

Signature: _____ Date: _____

ATTACHMENT 17: EPC-CP-QP-2109, MSGP CORRECTIVE ACTIONS

| | | |
|----------------------------|------------------------------|---|
| EPC-CP-QP-2109 | Revision: 0 |  |
| Effective Date: 06/02/2022 | Next Review Date: 06/02/2025 | |

Environment, Safety, Health, and Quality, Safeguards and Security Directorate
Environmental Protection and Compliance Division – Compliance Programs
Quality Procedure

MSGP Corrective Actions

Hazard Grading: Low Moderate High/Complex

Usage Level: Reference UET Mixed: UET Sections: _____

Status: New Major Revision Minor Revision

Review w/No Changes Other: _____

Safety Basis: N/A USQ USI Number: _____

Document Owner/Subject Matter Expert:

| | | | |
|------------------|---------------|-------------------|------------|
| Name: | Organization: | Signature: | Date: |
| Holly L. Wheeler | EPC-CP | Signature on File | 05-05-2022 |

Derivative Classifier: Unclassified or _____

| | | | |
|------------------|---------------|-------------------|------------|
| Name: | Organization: | Signature: | Date: |
| Steven E. Wolfel | EPC-CP | Signature on File | 05-06-2022 |

Approval Signatures:

| | | | |
|-------------------------------|---------------|-------------------|------------|
| EPC-CP Reviewer: | Organization: | Signature: | Date: |
| Leslie J. Dale | EPC-CP | Signature on File | 05-06-2022 |
| EPC-CP RLM: | Organization: | Signature: | Date: |
| Terrill W. Lemke, Team Leader | EPC-CP | Signature on File | 05-20-2022 |
| EPC-CP RLM | Organization: | Signature: | Date: |
| Steven L. Story, Group Leader | EPC-CP | Signature on File | 06-02-2022 |

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| | | |
|--------------------------------|----------------|----------------------------|
| MSGP Corrective Actions | EPC-CP-QP-2109 | Page 2 of 39 |
| | Revision: 0 | Effective Date: 06/02/2022 |

Revision History

| Document Number and Revision <i>[Include revision number, beginning with Revision 0]</i> | Effective Date <i>[Document Control Coordinator inserts effective date]</i> | Description of Changes <i>[List specific changes made since the previous revision]</i> |
|--|---|--|
| 0 | 08/10 | New Document. |
| 1 | 11/10 | Incorporated EPC-CP-QP-062 <i>MSGP Routine Inspections</i> into this document. |
| 2 | 01/13 | Biennial revision, new template implemented. |
| EPC-CP-QP-022 R3 | 12/20/2018 | Revision to reflect new 2015 MSGP requirements. New procedure format was used, and organizational changes made. This document replaces ENV-RCRA-QP-022, R2, which was split into EPC-CP-QP-023, R0, MSGP Industrial Stormwater Routine Facility Inspections, and EPC-CP-QP-022, R3, MSGP Corrective Actions. |
| EPC-CP-QP-2109 R0 | 06/02/2022 | This document replaces/supersedes EPC-CP-QP-022 R3. This Revision incorporates new 2021 MSGP permit requirements, a new document number, and other organizational updates. |

| | | |
|--------------------------------|----------------|----------------------------|
| MSGP Corrective Actions | EPC-CP-QP-2109 | Page 3 of 39 |
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1.0 INTRODUCTION

The National Pollutant Discharge Elimination System (NPDES) Multi-Sector General Permit (MSGP) contains specific environmental requirements for identifying, implementing, documenting, and reporting conditions requiring corrective actions. Laboratory personnel [the Deployed Environmental Professionals (DEPs)] and the Environmental Protection and Compliance Division – Compliance Programs (EPC-CP) Storm Water Permitting/Compliance Team (also referred to as EPC-CP MSGP stormwater personnel) are required to perform routine facility inspections and document all identified conditions requiring corrective actions on an inspection form (see EPC-CP-QP-2108). Conditions requiring corrective actions can be identified during facility walk-downs, normal daily operations, and/or analytical data evaluations, and can be identified by facility personnel, the DEP, or EPC-CP MSGP stormwater personnel.

1.1 Purpose

This procedure governs the activities of Laboratory personnel working for Triad National Security, LLC (Triad) at Los Alamos National Laboratory (LANL) involved in identifying, implementing, documenting, and entering a condition requiring corrective action. This includes entering a permit limit exceedance or Additional Implementation Measures (AIM) level into the MSGP Corrective Action Report (CAR) database. Part 5.3 of the MSGP permit contains specific documentation requirements relative to corrective actions and AIM. This procedure satisfies these requirements.

1.2 Scope

Requirements set forth in this document apply to personnel responsible for meeting the permit conditions on behalf of LANL industrial sites covered by the MSGP. This permit requires periodic inspection of sites and identification, implementation, documentation, tracking and reporting of conditions requiring corrective actions.

1.3 Applicability

This procedure applies to EPC-CP MSGP stormwater personnel and DEPs who conduct stormwater inspections and monitoring activities at permitted MSGP sites within LANL.

2.0 PRECAUTIONS AND LIMITATIONS

Actions specified within this procedure, unless preceded with “should” or “may,” are to be considered mandatory guidance (i.e., “shall”).

The hazard level for field activities and office work described in this procedure is a **LOW hazard** rating and does not require an Integrated Work Document (IWD).

Inspections or walk-downs may be discontinued during periods or conditions that make sites dangerous for worker safety or prevent personnel from safely accessing sites (e.g., weather-related events such as flash floods, flooding, lightning, wildfires, hail, icy roads, deep snow, or LANL operations such as firing shots or open burning).

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3.0 PREREQUISITE ACTIONS

3.1 Planning and Coordination

DEPs and EPC-CP MSGP stormwater personnel require a CAR database user account ([MSGP-CAR](#)). Facility Operations Directors (FODs), Operations (Ops) Managers and other managers can request a read-access account by contacting the EPC-CP MSGP data administrator for access.

3.2 Tools and Equipment

Tools and equipment for documenting inspections and updating the CAR database include the following:

- LANL issued desktop computer, tablet or notebook style computer with Safari web browser and Blackberry UEM™ app. (See <https://int.lanl.gov/policy/documents/P217.pdf> for requirements on using portable electronic devices (PEDs) on Laboratory property); and
- Access to the CAR database.

Tools and equipment for field work associated with performing inspections and site walk-downs are listed below.

- Sturdy hiking boots or steel or composite toed shoes with soles that grip.
- Safety glasses, if required by site.
- Government issued cell phones are not allowed in secure spaces. Government or privately owned vehicles located inside a LANL secure area but outside any Secure Space boundaries (e.g., the outside of a building) serve as approved storage containers for controlled PEDs. See <https://int.lanl.gov/policy/documents/P217.pdf> for requirements on using PEDs on Laboratory Property.)
- Copy of this procedure.
- Copy of facility specific Stormwater Pollution Prevention Plan (SWPPP) and map(s) (as needed).
- Necessary access.
- Stockpile of temporary and permanent stormwater control measures (SCMs), e.g., inlet protection, absorbent pads for spills, gravel bags, S-Fence, wattles, etc.

4.0 ROLES AND RESPONSIBILITIES

Specific roles and responsibilities for implementation of requirements contained in the MSGP are provided below.

4.1 EPC-CP MSGP Stormwater Personnel

EPC-CP MSGP stormwater personnel are fully knowledgeable of the specific regulatory requirements identified in the MSGP. Additional responsibilities are listed below.

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- Implement this procedure.
- Oversee the corrective action process.
- Identify an AIM triggering condition or other conditions requiring corrective action during internal routine facility inspections, “no exposure” assessments, and/or facility walk-downs performed by them, or during evaluation of monitoring data when permit limits are exceeded.
- Perform a quality review of conditions requiring corrective action submitted in the CAR database.
- Notify managers and/or legal counsel of non-compliances.
- Assist DEPs and other customers with issues associated with the CAR database.
- Prepare and submit 45-day or 90-day exceedance notifications to Region 6, Environmental Protection Agency (EPA) containing information provided by the DEP.
- Prepare and submit the Annual Report summarizing all conditions requiring corrective action for the year in EPA’s electronic NPDES eReporting tool (NeT).
- Prepare management requested metrics relative to conditions requiring corrective action.
- Provide information to the Issues Management Coordinator (IMC) for entering permit limit exceedances and other permit violations into the Issues Management (IM) tool; and
- Train personnel to use the CAR database.

4.2 Deployed Environmental Professionals

DEPs will be fully knowledgeable of the site-specific SWPPP for their assigned sites and corrective action requirements identified in the MSGP. As part of training, they will conduct an MSGP Routine Facility Inspection (RFI) with the MSGP Program Lead, or other designee, a minimum of once per year. During this activity, the MSGP Program Lead will determine if additional joint inspections are needed and will coordinate any additional inspections with the DEP, as appropriate. Further, they shall be familiar with facility operations and stormwater control measures to minimize potential pollutant sources in stormwater discharge from the site, and proactively maintain control in an attempt to prevent conditions that require corrective action.

The DEPs are responsible for implementing this procedure. They will identify conditions requiring corrective actions observed at their industrial sites and enter them into the CAR database. DEPs act as a liaison between the FOD, EPC-CP, DEP Team Leader, Operations Manager, and facility/operations personnel to ensure all corrective actions and AIM triggering conditions are addressed appropriately by overseeing maintenance and/or installation of additional controls, as needed. DEPs are responsible for ensuring a corrective action is completed per MSGP requirements and the corrective action timeline (see Parts 5.1.3, 5.2, and 5.2.2 of the MSGP). They also provide timely updates to the CAR database for closure or update of corrective actions as they are implemented.

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When permit limits are exceeded, DEPs facilitate review of the condition requiring corrective action by the Stormwater Pollution Prevention Team and coordinate the effort to identify the source and maintain existing controls, as well as implement additional controls, to prevent further exceedances.

If the DEP or EPC-CP MSGP stormwater personnel determine that additional controls are necessary, or that existing controls are insufficient and require replacement with a different type of control, the DEPs are responsible for the selection and oversight of proper installation of appropriate control measures per guidance provided in the [LANL Stormwater BMP Manual](#).

| |
|--|
| <p>CAUTION</p> <p>Failure to appropriately control pollutant discharges can result in fines and penalties.</p> <p>Implementing the same SCM numerous times without an improvement in minimization of off-site pollutants is an indication that the control measure is not stringent enough to meet Technology-Based or Water Quality-Based effluent limits or AIM triggering conditions identified in the MSGP. AIM level triggering conditions require sequential and increasingly robust responses when a benchmark exceedance occurs and require additional SCMs to be implemented.</p> |
|--|

DEPs will notify the EPC-CP MSGP data administrator or MSGP Program Lead of key personnel changes (FOD, Ops Manager, additional DEP, or other key managers) to ensure automated CAR status notifications are distributed to appropriate personnel.

4.3 EPC-CP Storm Water Permitting/Compliance Team Leader

The EPC-CP Storm Water Permitting/Compliance Team Leader (or team leader) is responsible for compliance oversight relative to the MSGP. The team leader will ensure resources needed to implement the regulatory requirements identified in the MSGP are identified and environmental risks are assessed. Upper management will be notified of these resources or environmental risks, as deemed necessary. The team leader may certify MSGP discharge monitoring reports or RFIs. In the event there is a dispute regarding the regulatory requirements contained in the MSGP, the team leader will make the final determination of the required action. The team leader notifies upper management of instances of non-compliance with the permit.

4.4 EPC-CP Group Leader

The EPC-CP Group Leader or designee is responsible for ensuring there are adequate resources to implement the regulatory requirements identified in the MSGP. The group leader may also act as the duly authorized signatory that certifies the Annual Report. The group leader notifies upper management of instances of non-compliance with the permit or other identified environmental risk.

4.5 DEP Team Leader

The DEP Team Leader works with programmatic entities and the FOD to identify resources for their industrial sites to ensure permit requirements are implemented. The team leader is responsible for

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the performance of DEPs. The team leader also provides oversight for ensuring that industrial sites are complying with the MSGP and is responsible for coordinating with the EPC-CP Storm Water Permitting/Compliance Team Leader and MSGP Program Lead and/or upper management for instances of non-compliance with the permit or other identified environmental risk the team leader becomes aware of. In addition, the DEP Team Leader may certify MSGP SWPPPs.

4.6 Facilities Operations Director

The FOD provides organizational leadership to ensure that all facility and programmatic activities under their authority are performed in compliance with the MSGP. The FOD is also responsible for establishing an environmental compliance envelope. The FOD is responsible for developing, implementing, enforcing, and maintaining the SWPPP, and is accountable for SWPPP requirements applicable to their facility. In addition, they are responsible for maintaining trained and qualified DEPs and Waste Management Coordinators (WMCs) on staff.

5.0 PROCESS DESCRIPTION

Requirements regarding corrective actions are described in Part 5 of the MSGP. These requirements and conditions are summarized in this section and directly correspond to data fields and lists of values available in the CAR database.

5.1 Identifying Conditions Requiring Corrective Actions

DEP

[1] **IF** any of the following conditions are identified,

THEN review and revise, as appropriate, the selection, design, installation, and implementation of control measures in the SWPPP to eliminate the condition and prevent recurrence in the future so LANL’s effluent limits are met, and pollutant discharges are minimized.

- An unauthorized release or discharge (e.g., spill, leak, or discharge of non-stormwater not authorized by the MSGP [see Section 5.6 of this procedure for a description of allowable discharges]).
- A discharge violates a numeric effluent listed in Table 2-1 of the MSGP and/or sector-specific requirements identified in Part 8 of the permit.
- SCMs are not stringent enough for stormwater discharge to be controlled as necessary such that the receiving water of the United States will meet applicable water quality standards or to meet the non-numeric effluent limits in the permit.
- It is observed during the routine facility inspection, facility walk-down, and/or the quarterly visual assessment that the control measures are not being properly operated and maintained.
- An AIM triggering condition occurred (i.e., the average of four quarterly sampling results exceeds an applicable benchmark).

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- A visual assessment shows evidence of stormwater pollution.
- Construction or a change in design, operation, or maintenance at the facility significantly changes the nature of pollutants discharged in stormwater from the facility, or significantly increases the quantity of pollutants discharged.

DEP and/or EPC-CP MSGP stormwater personnel

- [2] Enter all conditions triggering the need for corrective action review into the EPC-CP MSGP CAR database within 24 hours of becoming aware of such condition.

DEP and/or Facility Personnel (e.g., the Stormwater Pollution Prevention Team)

- [3] Take immediate action to mitigate the condition requiring a corrective action.
- [4] If needed, follow the permit timeline and process for an individual corrective action or AIM level triggering condition that requires maintenance or installation of additional SCMs.
- [5] Any person authorized to conduct work at LANL can identify a potential stormwater issue. If this occurs, they will:
- [a] Contact the DEP or EPC-CP MSGP stormwater personnel.
 - [b] The DEP or EPC-CP MSGP stormwater personnel will determine if a condition exists that requires a corrective action or AIM level triggering condition.

5.2 Corrective Action and AIM Level Deadlines and Documentation

Specific deadlines for taking corrective action or additional implementation measures, as well as required documentation are provided in the subsections below.

5.2.1 Immediate Action

DEP and/or Facility Personnel (e.g., the Stormwater Pollution Prevention Team)

- [1] **IF** a condition exists that requires corrective action, as described in Section 5.1 [1], **THEN** take the following action immediately (on the same day the condition is found):
- [a] Minimize or prevent the discharge of pollutants, taking all reasonable steps necessary, until a permanent solution is installed and made operational.
 - [b] Clean up any contaminated surfaces so that material will not discharge during subsequent storm events.

NOTE

For minor conditions, immediate action is often sufficient, and no additional action is necessary.

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- [2] **IF** a condition is identified at a time in the workday when it is too late to initiate corrective action (i.e., 3:00 pm or later),
THEN:
- [a] Corrective action will begin no later than the following workday morning.
 - [b] Implement the requirements identified in Section 5.2.1 [1] above.
 - [c] Enter the following information in the MSGP CAR database:
 - For spills or leaks provide a description of the incident and include material, date/time, amount, location, why the spill occurred and whether it resulted in the discharge of pollutants to waters of the U.S., through stormwater discharge or otherwise.
 - Date the condition was identified; and
 - Description of immediate actions taken (see Part 5.1.3.1) to minimize or prevent the discharge of pollutants. For spills or leaks, include the response actions, date/time clean-up was completed, notification made, and the staff involved. Include any measures taken to prevent the reoccurrence of such releases.

CAUTION

Solely calling or e-mailing personnel to request action to be taken is not considered taking immediate action. Entering a Facility Service Request (FSR) is appropriate if it formally starts the work process to address the condition. Temporary Best Management Practices (BMPs) still need to be put in place to minimize or prevent off-site migration of pollutants, especially if a storm event is likely.

5.2.2 Subsequent Action

DEP and/or Facility Personnel (e.g., the Stormwater Pollution Prevention Team)

- [1] **IF** additional action is required,
THEN:
- [a] Complete the corrective action (e.g., install a new, or modify an existing stormwater control and make it operational, or complete a repair) before the next storm event or within 14 calendar days from the time of discovery.
 - [b] For an AIM Level 1 exceedance, review the SWPPP and implement additional measures (considering good engineering practices) that will bring the exceedance below the benchmark threshold.
 - [c] When a determination is made that no additional action is required, document in the CAR database, why existing control measures will bring the exceedance (for AIM Level 1) below the benchmark threshold for the next 12 months.

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- [d] Enter the dates when each condition was completed (or is expected to be completed) in the CAR database.
- [2] **IF** completion of the corrective action is infeasible within the 14-day timeframe, **THEN:**
 - [a] Document the rationale and a schedule for completion of the corrective action in the CAR database.
 - [c] Complete the corrective action within 45 days of discovery.
 - [d] Modify the SWPPP (within 14 calendar days of completing corrective action work) to add changes to controls or administrative procedures.
- [3] **IF** completion of the corrective action will not occur within the 45-day timeframe, **THEN:**
 - [a] On day 40, notify the EPC-CP Program Lead that the 45-day timeframe will be exceeded. Provide a schedule for completion of the corrective action and rationale for the extension. An extension beyond 45 days is not permitted for an AIM Level 1 exceedance.

NOTE

These time intervals are not grace periods, but are schedules considered reasonable for documenting findings and for making repairs and improvements. They are included in the MSGP to ensure that the conditions prompting the need for these repairs and improvements do not persist indefinitely (see Part 5.1.3.2 of the MSGP).

EPC-CP MSGP stormwater personnel

- [b] Prepare and submit 45-day exceedance notification to EPA Region 6 by day 45 based on information entered into the CAR database by the DEPs.
- [4] In the case of an AIM Level 1 exceedance, send out notification to EPC-CP stormwater field personnel to stop monitoring at the outfall for the parameter that exceeded benchmark.
 - [a] Once the condition requiring corrective action has been closed, send notification to EPC-CP stormwater field personnel to start monitoring at the outfall for the parameter that exceeded benchmark.
- [5] Continue quarterly benchmark monitoring for the next four quarters for the parameter(s) that caused the AIM triggering condition, beginning no later than the next full quarter after completion of additional measures.

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[6] **IF** continued quarterly benchmark monitoring results indicate an AIM triggering condition has not occurred after four quarters of monitoring,

THEN:

[a] Discontinue benchmark monitoring for that parameter until monitoring resumes in year 4 of the permit or discontinue monitoring for the remainder of the permit term (if after year four).

5.2.3 AIM Level 2

DEP and/or Facility Personnel (e.g., the Stormwater Pollution Prevention Team)

[1] **IF** an AIM Level 2 exceedance occurs,

THEN:

[a] Review the SWPPP, and

[b] Implement additional pollution prevention/good housekeeping SCMs (considering good engineering practices) within 14 calendar days of identification, beyond what was implemented for the AIM Level 1 response. This action is expected to be sufficient to bring the exceedance below the benchmark threshold.

[2] **IF** completion of the corrective action is infeasible within the 14-day timeframe,

THEN:

[a] Document the rationale and provide a schedule for completion of the corrective action in the CAR database.

[b] Complete the corrective action within 45 days of identification of the condition.

[c] Update the CAR database to include:

- Actions taken and/or outstanding, and
- Date and time the corrective action was completed.

[3] **IF** completion of the corrective action will not occur within the 45-day timeframe,

THEN:

[a] On day 40, notify the EPC-CP Program Lead that the 45-day timeframe will be exceeded. Provide a schedule for completion of the corrective action and rationale for the extension.

EPC-CP MSGP stormwater personnel

[b] Prepare and submit the 45-day exceedance notification to EPA Region 6 based on information entered into the CAR database by the DEP.

[4] Send out notification to EPC-CP stormwater field personnel to stop monitoring at the outfall for the parameter that exceeded benchmark.

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- [a] Once the condition requiring corrective action has been closed, send notification to EPC-CP stormwater field personnel to start monitoring at the outfall for the parameter that exceeded benchmark.
- [5] Continue quarterly benchmark monitoring for the next four quarters for the parameter(s) that caused the AIM triggering condition, beginning no later than the next full quarter after completion of additional measures.
- [6] **IF** continued quarterly benchmark monitoring results indicate an AIM triggering condition has not occurred after four quarters of monitoring,
THEN:
 - [a] Discontinue benchmark monitoring for that parameter until monitoring resumes in year 4 of the permit or discontinue monitoring for the remainder of the permit term (if after year four).

5.2.4 AIM Level 3

DEP and/or Facility Personnel (e.g., the Stormwater Pollution Prevention Team)

- [1] **IF** an AIM Level 3 exceedance occurs,
THEN:
 - [a] Identify the schedule for installing the appropriated structural source and/or treatment SCMs within 14 days.
 - [b] Install structural source controls (e.g., permanent controls such as permanent cover, berms, and secondary containment), and/or treatment controls (e.g., sand filters, hydrodynamic separators, oil-water separators, retention ponds, and infiltration structures) within 60 days.
 - [c] Controls, treatment technologies, or treatment train will be appropriate for the pollutants that triggered the AIM Level 3 and must be more rigorous than the control measures implemented for the AIM Level 1 and 2 responses.
- 2] **IF** completion of the corrective action is infeasible within the 60-day timeframe,
THEN:
 - [a] Document the rationale and provide a schedule for completion of the corrective action in the CAR database.
 - [b] Complete corrective action within 90 days of identification of the condition.
 - [c] Update the CAR database to include:
 - Actions taken and/or outstanding, and
 - Date and time the corrective action was completed.
- [3] **IF** completion of the corrective action will not occur within the 90-day timeframe,
THEN:

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- [a] On day 85, notify the EPC-CP Program Lead that the 90-day timeframe will be exceeded. Provide a schedule for completion of the corrective action and rationale for the extension.

EPC-CP MSGP stormwater personnel

- [b] Prepare and submit the 90-day exceedance notification to EPA Region 6 by day 90 based on information entered into the CAR database by the DEP.
- [4] Send out notification to EPC-CP stormwater field personnel to stop monitoring at the outfall for the parameter that exceeded benchmark.
- [a] Once the condition requiring corrective action has been closed, send notification to the EPC-CP stormwater field personnel to start monitoring at the outfall for the parameter that exceeded benchmark.
- [5] Continue quarterly benchmark monitoring at all affected outfalls for the next four quarters for the parameter(s) that caused the AIM triggering condition, beginning no later than the next full quarter after completion of additional measures.
- [6] **IF** continued quarterly benchmark monitoring results indicate an AIM triggering condition has not occurred after four quarters of monitoring,
THEN:
- [a] Discontinue benchmark monitoring for that parameter until monitoring resumes in year 4 of the permit or discontinue monitoring for the remainder of the permit term (if after year four).
- [7] **IF** continued quarterly benchmark monitoring results indicate an AIM triggering event has occurred after four quarters of monitoring,
THEN:
- [a] EPA may require the operator to apply for an individual permit.

5.2.5 AIM Exceptions

An AIM Level exceedance may qualify for an exception from specific AIM requirements and continued benchmark monitoring, provided the requirements to demonstrate qualification of the exception are followed (see Parts 5.2.6.1 through 5.2.6.5 of the permit). These exceptions include the following:

- Solely attributable to natural background pollutant levels;
- Due to run-on;
- Due to an abnormal event;
- Demonstrated to not result in an exceedance to facility-specific value using the national recommended water quality criteria in-lieu of the applicable MSGP benchmark threshold (for aluminum and copper benchmark parameters only); or
- Demonstrated to not result in any exceedance of water quality standards.

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There are very specific and complicated documentation requirements and time frames that have to be met to qualify for any of these exceptions. Therefore, any demonstration to qualify for an exception will be coordinated through a representative of the EPC-CP Storm Water Permitting/Compliance Team.

5.3 Effect of Corrective Action

When the condition requiring corrective action is a permit violation (e.g., non-compliance with an effluent limit or exceedance of a water quality standard), correcting it does not remove the original violation. Additionally, failing to take corrective action in accordance with Part 5 of the MSGP is an additional permit violation.

NOTE

The EPA will consider the appropriateness and promptness of corrective action in determining enforcement responses to permit violations (Part 5.1.4 of the MSGP).

5.4 Substantially Identical Discharge Points

When the condition requiring corrective action is associated with an outfall that has been identified as a “substantially identical discharge point” (see Parts 3.2.4.5 and 4.1.1 of the MSGP), a review will assess the need for corrective action for all related substantially identical discharge points. Any necessary changes to control measures that affect these other discharge points will be made before the next storm event (if possible), or as soon as practicable following that storm event. Any condition requiring corrective action(s) will be addressed within the timeframes set forth in Parts 5.1.3, 5.2.3.2, 5.2.4.2 and 5.2.5.2 of the MSGP (also see Section 5.2 of this procedure).

5.5 Spills

DEP and/or Facility Personnel

- [1] Clean up all leaks or spills immediately and enter the condition requiring corrective action into the CAR database.
 - [a] If the spill is immediately cleaned up, and controls are implemented to prevent further leakage, the condition requiring corrective action can be closed.

5.6 Allowable Non-Stormwater Discharges

The following are allowable non-stormwater discharges authorized by the MSGP:

- Discharges from emergency/unplanned fire-fighting activities;
- Fire hydrant flushing;
- Potable water, including water line flushing;

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- Uncontaminated condensate from air conditioners, coolers/chillers, and other compressors and from the outside storage of refrigerated gases or liquids;
- Irrigation/landscape drainage, provided all pesticides, herbicides, and fertilizers have been applied in accordance with the approved labeling;
- Pavement wash waters, provided that detergents or hazardous cleaning products are not used (e.g., bleach, hydrofluoric acid, muriatic acid, sodium hydroxide, nonylphenols), and wash waters do not come into contact with oil and grease deposits, sources of pollutants associated with industrial activities (see Part 6.2.3 of the MSGP), or any other toxic or hazardous materials, unless residues are first cleaned up using dry clean-up methods (e.g., applying absorbent material and sweeping, using hydrophobic mops/rags) and appropriate control measures have been implemented to minimize discharges of mobilized solids and other pollutants (e.g., filtration, detention, settlement);
- External building/structure washdown / power wash water that does not use detergents or hazardous cleaning products (e.g., those containing bleach, hydrofluoric acid, muriatic acid, sodium hydroxide, nonylphenols) and control measures are in place to minimize discharge of mobilized solids and other pollutants (e.g., filtration, detention, settlement);
- Uncontaminated ground water or spring water;
- Foundation of footing drains where flows are not contaminated with process materials;
- Incidental windblown mist from cooling towers that collects on rooftops or adjacent portions of the facility, but not intentional discharges from the cooling tower (e.g., “piped” cooling tower blowdown or drains); and
- Any authorized non-stormwater discharge (see above bullets) or any stormwater discharge authorized by the permit mixed with a discharge authorized by a different NPDES permit and/or discharge that does not require NPDES permit authorization.

5.7 Entering a Condition Requiring Corrective Action

To enter a condition requiring corrective action into the CAR database, perform the steps in this section.

Enter clear, complete, and concise language. Correct grammar, punctuation, and spelling errors.

Select the appropriate value from each pull-down menu that applies to the condition requiring corrective action. This information is used to populate a report submitted to the EPA and is extracted from the database to populate automatic e-mail notifications to managers. Therefore, it is critical that all information entered into the CAR database is correct.

DEP or EPC-CP MSGP stormwater personnel

[1] Using Firefox, Chrome, or Edge, access the CAR database at epc.lanl.gov.

[2] From the main screen, click on “Multi-Sector General Permit Corrective Action Report (MSGP-CAR).”

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[3] Click on “Enter/Edit CAR Data.”

[4] Click on the black box at the right of the screen “Create New CAR.”

[a] Enter the following (refer to Attachment 1 for data entry screenshot cross reference to **Item numbers in red** listed below):

- **Item 1:** Name of facility by clicking on the down indicator and selecting the relevant facility (e.g., TA-55-0005 Warehouse). If the correct facility does not show up, hit the “Load More Rows” button at the bottom of the screen.
- **Item 2:** Provide information about the specific location where the condition requiring corrective action was found (e.g., the northeast corner of the TA-60 Material Recycling Facility).
- **Item 3:** Date/Time the problem was identified (mm/dd/yyyy hh:mm) (*the inspection date or the date you first become aware of the issue*). Click on the calendar to the right of the screen and select the correct date. Change the gray buttons to indicate the correct time (hh:mm).

All dates and times will be entered as mm/dd/yyyy hh:mm in 24-hr (military time) format. Time is tracked to document whether immediate action was taken, whether the issue was documented within 24 hours, and the specific time interval before a corrective action is completed and closed (see Section 5.2 of this procedure for corrective action and AIM Level deadlines). Do not leave time as 00:00 (the system default) unless the action occurred at midnight.

- **Item 4:** FOD by clicking on the down button on the right of the screen and selecting the correct entity (e.g., WFO).
- **Item 5:** Date/Time of Notification to EPC-CP (mm/dd/yyyy hh:mm) (*the date the condition is entered into the CAR database or verbal, or written notification is provided to the EPC-CP MSGP Program Lead. Conditions reported by verbal or written notification must still be entered into the CAR database.*) Click on the calendar to the right of the screen and select the correct date. Change the gray buttons to indicate the correct time (hh:mm). All dates and times will be entered as mm/dd/yyyy hh:mm in 24-hr (military time) format.
- **Item 6:** Provide the Z number of the Inspector by typing in the actual Z number, if not already populated correctly. The Z number of the person logged into the database will populate this field.
- **Item 7:** Provide the Z number of the person that identified the condition requiring corrective action, if not already populated correctly. The Z number of the person logged into the database will populate this field.

Any person authorized to conduct work at LANL can identify a potential stormwater issue. If this occurs, they will contact the DEP or EPC-CP MSGP stormwater personnel who will determine if a condition exists that requires corrective action.

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- **Item 8:** Report status defaults to “A new corrective action” without making a selection. In the event a condition is entered that is determined to not require corrective action, this status can be changed to “Void” by clicking in the box and selecting from the Status list. The decision to assign a status of “Void” is at the discretion of EPC-CP MSGP stormwater personnel and reserved for EPC-CP use.
- **Item 9:** If the Status is changed to “Void,” enter a clear rationale for voiding the record.
- **Item 10:** Once all the above information is entered correctly, click “Save.” Once the CAR is saved, the system will return to the CAR Data page, and your newly created CAR will be at the top of the list.

All boxes identified with a red triangle are “required fields” meaning the form cannot be saved unless these fields are completed. For the purpose of fulfilling corrective action documentation requirements, all applicable fields are required fields.

[b] The system will automatically assign a Corrective Action Report identification (ID) number. Once the CAR is saved, the system will return to the CAR Data page, and your newly created CAR will be at the top of the list. Click on the pencil in the left part of the screen, then click “Create Finding Details” at the bottom right corner to enter finding information (see Attachment 1 page 4). Enter the following:

- **Item 11** (see Attachment 1 page 5 of 7): Identify the condition triggering the need for this review by clicking on the down indicator at the right of the screen and selecting the appropriate condition. Most conditions requiring corrective action will meet one of the listed options. If it does not, select “Other” and enter a description of the condition (refer to Attachment 2 for a list of available conditions/finding descriptions).

Qualified personnel (EPC-CP MSGP stormwater personnel and DEPs) must be knowledgeable of these conditions and select the correct one when entering an issue. If there is uncertainty about which condition applies, refer to the definitions in Section 8.1 of this procedure or contact the MSGP Program Lead at 667-1312 or hbenson@lanl.gov for clarification prior to selecting “Other.”

- **Item 12:** If the condition in Item 11 (above) is set to “Other,” enter a description of the condition in this field.
- **Item 13:** Enter “NA” (not applicable) for “outfall” unless the condition is an exceedance of a benchmark value, or numeric effluent limitation guideline (ELG), or the condition occurred at the MSGP outfall such as pollutants identified during a quarterly visual inspection (e.g., 022).
- **Item 14:** Briefly describe the nature of the problem identified during the inspection (e.g., erosion, damage to a SCM, trash, spill, etc.) and the specific evaluation location (e.g., at TA-60 Roads and Grounds).

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Spills or other emergency conditions meeting the criteria for corrective action (identified in Part 5.1 of the MSGP) will require documentation in the CAR database even though the condition was not identified during an inspection.

- **Item 15:** Enter “NA” for “AIM Level” unless an AIM triggering event has occurred. Only EPC-CP MSGP stormwater personnel enter this information.
- **Item 16:** Enter “NA” unless EPA Region 6 has approved documentation provided requesting the AIM exception. Only EPC-CP MSGP stormwater personnel enter this information.
- **Item 17:** Enter the inspection type by clicking on the downward arrow to the right of the screen and selecting the appropriated option. If none of the available options fit, selecting “Other.”
- **Item 18:** If “Other” is selected for Item 17 (above), enter a description of how the problem was identified in this field.
- **Item 19** (see Attachment 1 page 6 of 7): Enter a description of the condition requiring corrective action or identify action to be taken to eliminate or further investigate the problem (e.g., describe modifications or repairs to control measures, work conducted to address the condition or to be scheduled in the future, etc.) or if no modifications are needed, the basis for that determination. Include relevant dates and facts when updating this field as the corrective action progresses.
- **Item 20:** Indicate whether the problem was identified at a Substantially Identical Discharge Point (SIDP) by typing “Y” for yes and “N” for no.
- **Item 21:** If the answer to Item 20 is “Y,” enter the associated SIDP(s) in this field. If the answer to Item 20 is “N,” leave this field blank. SIDPs are identified in the site-specific SWPPPs. For assistance with identifying SIDPs contact the MSGP Program Lead.
- **Item 22:** If the answer to Item 20 is “Y,” describe how the corrective action taken is appropriate for all SIDPs, document any additional corrective action(s) needed for any of the SIDPs, or document why no additional action is needed for the SIDPs. If the answer to Item 20 is “N,” leave this field blank.
- **Item 23:** Did/will the corrective action require modification to the SWPPP? Type in “Y” for yes and “N” for no.
- **Item 24:** Date/Time Corrective Action was initiated (mm/dd/yyyy hh:mm).

The duration between the Date/Time problem was identified and Date/Time corrective action was initiated is used to determine whether “immediate action” was taken (see Section 5.2.1 of this procedure). Immediate action is a requirement of the MSGP and therefore, is documented in accordance with permit requirements.

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- **Item 25** (see Attachment 1 page 7 of 7): Date/Time corrective action was completed **OR** (see Item 26 below).
- **Item 26**: Expected completion Date/Time (mm/dd/yyyy hh:mm), if the corrective action has not been completed. Once corrective action is complete [(as identified in Item 25 (above))], delete expected completion date. The system will not allow entry of a date in both locations.

The duration between the Date/Time Problem was identified and Date/Time corrective action was completed, or the Date/Time Problem was identified and expected completion Date/Time is used to determine whether “subsequent action” timeframes and documentation requirements were/are being met. To forecast where a 45-day or 90-day (for AIM Level 3) exceedance notification to EPA is required (see Sections 5.2.2 and 5.2.4 of this procedure). When information is incorrect or not entered, the MSGP data administrator or Program Lead will contact the originator and request correction(s).

- **Item 27**: If the corrective action is not or will not be completed within 14 days (or 60 days for AIM Level 3), provide the status of the corrective action at the end of the 14- or 60-day timeframe. Include the rationale for why it is infeasible to complete the corrective action within 14 days, and a description of any remaining steps (including timeframe/schedule associated with each step) necessary to complete the corrective action.
- **Item 28**: Date EPA was notified of intent to exceed 45 Days (mm/dd/yyyy hh:mm) is to be completed by EPC-CP MSGP stormwater personnel to document submittal of notification letter.
- **Item 29**: Date EPA was notified of intent to exceed 90 Days (for AIM Level 3) (mm/dd/yyyy hh:mm) is to be completed by EPC-CP MSGP stormwater personnel to document submittal of notification letter.
- **Item 30**: Enter the date monitoring changed back to baseline status. This information is to be completed by EPC-CP MSGP stormwater personnel based on evaluation of benchmark monitoring.

Once all the above information is entered correctly, click “Save” in the lower right portion of the screen so the corrective action information is retained.

[5] **IF** there are additional conditions to enter requiring corrective action, as described in Section 5.1 [1],

THEN perform these steps:

[a] Click on the “Enter or Edit CAR Data” tab at the top of the screen.

[b] Start with Section 5.7, steps 3 and 4 above and enter the information for Items #1-30.

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5.8 Updating Corrective Actions

DEP or EPC-CP MSGP stormwater personnel

- [1] Access the CAR database at epc.lanl.gov.
 - [a] On the Environmental Protection Compliance (EPC) Applications page click “Multi-Sector General Permit Corrective Action Report (MSGP-CAR).”
 - (b) Click “Enter/Edit CAR Data and scroll down to the corrective action number to be edited.
 - [b] Click on the pencil associate with the CAR # to be edited.
- [2] Navigate to the desired field and input the updated information. Most changes will occur relative to updating the status, schedule, and dates of corrective actions.
- [3] Click “Apply Changes” on the bottom right portion of the screen to save all changes to the information. If you do not want to save the change(s), hit the “Cancel” button on the bottom left side of the screen.

5.9 Validation of Corrective Actions

EPC-CP MSGP stormwater personnel

- [1] Access the CAR database at epc.lanl.gov.
- [2] Ensure information entered into the CAR database is correct.
 - [a] Check all entered fields for a condition requiring corrective action to ensure that information is clear, correct, and concise.
 - [b] **IF** not, **THEN** notify the DEP of the information that needs to be changed.
 - [c] The DEP is responsible for ensuring all information is validated before generating the annual report.
- [3] **IF** the identified condition requiring corrective action is a repeat of a previous condition or if it is determined not to be a condition requiring corrective action, **THEN**
 - [a] Under “Report Status,” select “Void.”
 - [b] Provide specific documentation as to why the CAR was voided.
 - [c] The “Void” designation allows MSGP stormwater personnel to manually exclude this information in the annual report.

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5.10 Issues Management

EPC-CP MSGP stormwater personnel or DEPs use the IM tool as the institutional performance issues and tracking system for identified quality assurance (QA) affecting issues. A QA affecting issue includes, but is not limited to, the following conditions.

- Exceedance of a numeric ELG (i.e., at the Asphalt Batch Plant).
- Repeat conditions requiring corrective actions or trends identified by EPC-CP MSGP stormwater personnel.
- Conditions requiring immediate action, where failure to take action would result in pollutants released to waters of the state.
- Immediate non-compliance with the MSGP.
- Violations identified by the regulatory authority.

The MSGP Program Lead periodically evaluates a summary of open conditions requiring corrective actions in the CAR database. Using the above conditions, the MSGP Program Lead or DEP determines which corrective actions, if any, will be transferred into the IM tool.

DEP or EPC-CP MSGP stormwater personnel

- [1] **IF** an issue needs to be entered into the IM tool,
THEN contact the EPC Division IMC for entry into the IM tool.

5.11 Automatic Notifications

- [1] When a new condition requiring corrective action is entered into the CAR database, the FOD, Ops Manager, inspector (usually the DEP) and EPC-CP MSGP stormwater personnel and managers are notified automatically by e-mail on the evening of the day the corrective action was entered.
- [2] Automated e-mail notifications is sent out during the corrective action process depending on the length of time it takes to close the action.
- [3] A notification is sent out when:
- A new corrective action is entered into the database (see Attachment 3);
 - Weekly for outstanding (open) corrective actions (see Attachment 4);
 - A new AIM level (i.e., 1, 2 or 3) triggering event occurs;
 - A corrective action due to a permit limit exceedance is complete; and
 - An AIM level exceedance returns to baseline status.

For all notifications except the last two bullets above, a hyperlink is provided to a web-based report containing a list of all open issues and timeline status where final corrective actions have not been completed (see Attachment 5) by the FOD. The report contains the information:

| | | |
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- FOD,
- Facility,
- A unique Corrective Action identification number assigned by the CAR database,
- Name of the person identifying the condition,
- the date the problem was identified,
- the date the corrective action was initiated,
- the projected completion date,
- a color-coded count (corresponding to the Corrective Action deadlines in Section 5.2 et seq. of this procedure) of the number of days to take action,
- the number of days the issue has been open, and
- the problem description.

These notifications serve to apprise recipients of the status of conditions requiring corrective actions and provide sufficient time for MSGP stormwater personnel to provide documentation to EPA at the 45-day or 90-day deadline. These notifications also allow EPC-CP to manage monitoring status when AIM triggering events occur. In short, they assist the FOD, Ops Managers, DEPs, and EPC-CP stormwater personnel with keeping track of conditions requiring corrective actions.

6.0 TRAINING

The following personnel require training before implementing this procedure:

- EPC-CP Group Leader and Team Leader;
- EPC-CP MSGP stormwater personnel;
- DEPs; and
- Other LANL or subcontract personnel identified as being required to conduct stormwater inspections, or other assessments and enter conditions requiring corrective actions into the CAR database as part of their job duties.

The training method for this procedure is “self-study” (reading). Other participating groups may require training documentation pursuant to local procedures. All training must be assigned and tracked using the Laboratory training management system, UTrain.

Personnel performing this procedure will be familiar with the most current version of the following procedure:

- EPC-CP-PIP-2101, NPDES Multi-Sector General Permit Program Implementation Plan.

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7.0 RECORDS

Conditions requiring corrective actions are contained within the CAR database. DEPs will retain documentation substantiating these conditions, corrective actions, and timelines reported in the CAR database (e.g., e-mails, FSRs, Work Orders, etc., as appropriate). These documents shall be made available to EPC-CP upon request.

All records generated as a result of implementing this procedure will be maintained in accordance with P1020-1, Laboratory Records Management.

8.0 DEFINITIONS AND ACRONYMS

See [LANL Definition of Terms](#).

8.1 Definitions

Best Management Practice (BMP) — Schedules of activities, prohibitions of practices, maintenance procedures, and other management practices to prevent or reduce the pollution of “waters of the United States.” BMPs also include treatment requirements, operating procedures, and practices to control plant site runoff, spillage or leaks, sludge or waste disposal, or drainage from raw material storage. (*40 CFR Part 122.2*)

Control Measure — Any BMP or other method (including effluent limitations) used to prevent or reduce the discharge of pollutants to waters of the United States.

Numeric effluent limitation — The degree of effluent reduction attainable by the application of the best practicable control technology currently available (see 40 CFR Part 443.12). For LANL, numeric effluent limitations apply only to the Asphalt Batch Plant (Sector D) (see Table 1-1 of the MSGP). Constituents with limitations for Sector D include Total Suspended Solids, pH, and oil and grease (see Table 8.D-3 of the MSGP).

NOTE

Exceedance of a numeric effluent limitation is a violation of the MSGP (see Part 4.2.3.1 of the MSGP).

Non-numeric effluent limitations — Per Part 2.1.2 of the MSGP, these include minimizing exposure, good housekeeping, maintenance, spill prevention and response, erosion and sediment controls, management of runoff, salt storage controls, employee training, elimination of non-stormwater discharges, and minimizing dust generation and vehicle tracking of industrial materials.

Unauthorized release or discharge — The release of any liquid or solid substance (within the boundary of an MSGP site) that is not an allowable non-stormwater discharge (see Section 5.6). Examples are hydraulic oil, gasoline, diesel, powdered concrete, concrete washout, steam condensate line leaks, etc.

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8.2 Acronyms

See LANL Acronym Master List.

| | |
|--------------------|---|
| AIM | Additional Implementation Measures |
| BMP | Best Management Practice |
| CAR | Corrective Action Report |
| ELG | Effluent Limitation Guideline |
| EPA | Environmental Protection Agency |
| EPC-CP | Environmental Protection and Compliance-Compliance Programs |
| DEP | Deployed Environmental Professional |
| ID | Identification |
| IM | Issues Management |
| IMC | Issues Management Coordinator |
| IWD | Integrated Work Document |
| FOD | Facility Operations Director |
| FSR | Facility Service Request |
| LANL or Laboratory | Los Alamos National Laboratory |
| MSGP | Multi-Sector General Permit |
| N | No |
| NA | Not Applicable |
| NeT | EPA's NPDES eReporting Tool |
| NPDES | National Pollutant Discharge Elimination System |
| Ops | Operations |
| P | Procedure |
| PD | Program Description |
| PED | Portable Electronic Device |
| RFI | Routine Facility Inspection |
| QA | Quality Assurance |
| QP | Quality Procedure |
| SCM | Stormwater Control Measure |
| SD | System Description |
| SIDP | Substantially Identical Discharge Point |
| SWPPP | Stormwater Pollution Prevention Plan |
| Triad | Triad National Security, LLC |
| WMC | Waste Management Coordinator |
| 40 CFR | Title 40 of the Code of Federal Regulations |

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| | |
|---|-----|
| Y | Yes |
|---|-----|

9.0 REFERENCES

Final National Pollutant Discharge Elimination System (NPDES) General Permit for Stormwater Discharges from Industrial Activities. Federal Register: June 16, 2015, Volume 80, Number 115.

[United States Environmental Protection Agency \(EPA\) National Pollutant Discharge Elimination System \(NPDES\) Multi-Sector General Permit For Stormwater Discharges Associated With Industrial Activity](#)

[Los Alamos National Laboratory Storm Water BMP Manual](#)

[PD100, DOE/NNSA Approved Los Alamos National Laboratory 10 CFR 851 Worker Safety and Health Program Description](#)

[SD100, Integrated Safety Management System](#)

[P101-18, Procedure for Pause/Stop Work](#)

[P1020-1, Laboratory Records Management](#)

[EPC-CP-QP-2108, MSGP Routine Facility Inspections](#)

10.0 ATTACHMENTS

Attachment 1: Screenshot Examples of CAR Database

Attachment 2: List of Limited Values in the CAR Database

Attachment 3: Example New Corrective Action Finding Notification

Attachment 4: Example Weekly Notification of Outstanding Corrective Action Findings

Attachment 5: Example Outstanding Corrective Action Report

| | | |
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Attachment 1: Screenshot Example of CAR Database

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MSGP-CAR is accessed from the EPC Application page at epc.lanl.gov. To get started, click on “Multi-Sector General Permit Corrective Action Report (MSGP-CAR)” (see yellow highlight below).



Environmental Protection Compliance (EPC) Applications

| | | |
|--|---|--|
|  <p>EPC Roadmap Click here to view the current EPC Roadmap that shows all scheduled EPC work.</p> |  <p>ChemDB Chemical custodians have easy access to the tools necessary to keep the inventory of chemical containers accurate and complete. Rapid container update capabilities, reports generation, and compliance reporting for management review are examples of this invaluable functionality.</p> |  <p>Land Apply The Land Apply application contains historical data on groundwater discharges (land application) generated from drilling, rehabilitation, development and sampling activities. N3B assumed responsibility for the groundwater monitoring program and land apply activities per the Integrated Facility Groundwater Monitoring Plan, so this application will be used to store/retrieve historical data.</p> |
|  <p>Multi-Sector General Permit Corrective Action Report (MSGP-CAR) The National Pollutant Discharge Elimination System (NPDES) Multi-Sector General Permit (MSGP) contains specific environmental requirements for identifying, implementing, documenting and reporting conditions requiring corrective actions at permitted industrial facilities. The MSGP-CAR application tracks these conditions, responses, and timelines.</p> |  <p>Polychlorinated Biphenyl Application (PCB) The PCB application is a multi-step approach that LANL uses for tracking toxic PCB Substances until they are disposed and keeping in compliance with 15 USC 2601, 40 CFR 761, EH-413-0007-0009/0702 etc. The PCB application displays all archived data and allows the user to access and retrieve records as needed.</p> |  <p>Radioactive Waste Storage Area (RADSA) RADSA provides waste generators and waste management coordinators with the ability to maintain registered radioactive storage/staging areas per facility/site at the laboratory. WMP ensures DOE requirements for radioactive waste management and surveillance are in accordance with the approved RWMB. Registered facility self-inspections and surveillance of radioactive staging and storage areas ensures LANL radioactive waste management practices are consistent with the requirements in DOE O/M 435.1.</p> |
|  <p>Request for Analysis (RFA) The RFA application is used for tracking and editing all Requests for Analysis (RFA) for sampling the waste generators. When an RFA is requested, an email is sent to the coordinators who can review both new and old requests.</p> |  <p>Waste Area Tracking System Application used for tracking and updating waste locations across the lab via waste inspections. The application is used for registering and tracking sites so employees know where waste is stored at the laboratory to easily be identified and inspected. The application also tracks if the waste is active, removed, decommissioned, etc. EPA has regulations how the lab handles hazardous waste and this application helps keep track the information so they can remain compliant with those orders.</p> |  <p>Weather Machine The Weather Machine features GIS data in a redesigned layout with live graphs that track temperature, relative humidity, wind, precipitation and pressure. A regional overview allows users to pan around the Lab's 42 square miles and farther into northern New Mexico and beyond with storm watches and warnings featured from the National Weather Service.</p> |

Attachment 1: Screenshot Example of CAR Database (cont.)

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There are two basic functional areas in the system for most users: **Enter/Edit CAR Data** and **Reports**.

| CA# | FOD | Msgp Facility | Inspection Date | Inspector Name | Problem Description | Corrective Action Initiate Date | Corrective Action Complete Date | Report Status |
|------|-----|------------------------------|-------------------|--------------------|---|---------------------------------|---------------------------------|-------------------------|
| 2023 | UI | TA-60 Roads and Grounds | 19-OCT-2021 08:30 | SANDOVAL LEONARD F | At approximately 8:30 a.m. a John Deere 310 SE Turbo 4 X 4 backhoe with BC # 804058 leaked less than 1/2 a gallon of diesel fuel on asphalt from a fuel line on the left hand side of the paved road just past the clean fill yard at TA-60 Sigma Mesa. At 9:11 a.m the backhoe was loaded onto a trailer with a drip pan underneath it and delivered to TA-60 HEY to fix the fuel leak. | 19-OCT-21 | 19-OCT-21 | A new corrective action |
| 2022 | UI | TA-60 Roads and Grounds | 19-OCT-2021 08:12 | SANDOVAL LEONARD F | There's a Porta John next to some trees that needs to be anchored with rope and gravel bags so the wind doesn't blow it over. | 19-OCT-21 | 20-OCT-21 | A new corrective action |
| 2021 | UI | TA-60-1 Heavy Equipment Yard | 15-OCT-2021 11:15 | KNIGHT JACOB L | A LANL dump truck was delivered after being repaired and parked on the west side sloped area. The tank for the diesel exhaust fluid (2/3 water 1/3 urea - non toxic) was full and it leaked approximately 1 pint or less of fluid onto the pavement. | 15-OCT-21 | 15-OCT-21 | A new corrective action |
| 2020 | UI | TA-60-1 Heavy Equipment Yard | 15-OCT-2021 11:15 | KNIGHT JACOB L | Along the south perimeter of the upper yard at TA-60-1 Heavy Equipment there is a fencing replacement project underway. There is some cut metal and debris that needs to be picked up. Also as part of the project the area was cleared of vegetation and there is a lot of trash exposed now that needs cleanup. There was also trash in some drainage areas along the east perimeter of the upper yard. | 15-OCT-21 | 19-OCT-21 | A new corrective action |

Click Create New CAR (see black button at the right of the screen shot in the example above).

Attachment 1: Screenshot Example of CAR Database (cont.)

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Corrective Action Details tab

Los Alamos NATIONAL LABORATORY 108243

Home | Enter or Edit CAR Data | Reports | Administration

Create/Edit CAR

MSGP Facility **1**

Describe Specific Location where Condition was Found **2**

Date/Time Problem Identified **3**

FOD **4**

Date/Time EPC Notified **5**

Inspector Zno **6**

Person Identifying Condition Zno **7**

Report Status **8**

Void Comments **9**

Fields with a red triangle are required fields and must be filled out so the record can be created **10**

Cancel Save

Attachment 1: Screenshot Example of CAR Database (cont.)

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| CA# | Problem Description | Inspection Type Other Notes | Corrective Action Desc | SWPPP | Corrective Action Initiate Date | Corrective Action Complete Date | Corrective Action Expected Date | Corrective Action Status | SIDP | SIDP Affected | SIDP Action Taken | EPA Notified Date 45d | Finding Other Desc | Outfall | EPA Notified Date 90d | Baseline Date | AIM Level | AIM Exception |
|------|--|-----------------------------|--|-------|---------------------------------|---------------------------------|---------------------------------|--------------------------|------|---------------|-------------------|-----------------------|--------------------|---------|-----------------------|---------------|-----------|---------------|
| 2078 | At the entrance to the TA-60 MRF next the Eco-Bloks there's staining on asphalt that needs to be sprayed with micro-blaze. | - | At the entrance to the TA-60 MRF next the Eco-Bloks there's staining on asphalt that needs to be sprayed with micro-blaze. | N | 02-MAR-2022 08:20 | 02-MAR-2022 14:30 | 15-MAR-2022 17:00 | - | N | - | - | - | - | NA | - | - | NA | NA |

1 - 1

Cancel

| | | |
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Attachment 1: Screenshot Example of CAR Database (cont.)

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CA #

2075

Finding Type

Control measures inadequate to meet non-numeric effluent limitations

11

If Other, (describe here):

12

Outfall

NA

13

Problem Description

There is a cut steel plate sitting just outside the canopy used for metal storage in the SE corner of the upper yard

14

AIM Level

NA

15

AIM Exception

NA

16

Inspection Type

Routine facility inspection

17

If Other, (describe here):

18

Attachment 1: Screenshot Example of CAR Database (cont.)

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The screenshot shows a form with several input fields. Red callout boxes with numbers 19 through 24 are placed over specific parts of the form:

- 19**: Points to the description of the corrective action: "At the entrance to the TA-60 MRF next the Eco-Bloks there's staining on asphalt that needs to be sprayed with micro-blaze."
- 20**: Points to the question "Was the problem identified at an outfall that has associated SIDPs?" with the answer "N".
- 21**: Points to the question "Which SIDPs are affected?".
- 22**: Points to the question "If yes, provide documentation of how corrective action taken is appropriate for all associated SIDPs".
- 23**: Points to the question "Does this corrective action require modification of your SWPPP?" with the answer "N".
- 24**: Points to the "Corrective Action Initiated Date/Time" field, which contains "02-MAR-2022 08:20".

Attachment 1: Screenshot Example of CAR Database (cont.)

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| | | |
|--|-----------|--|
| Corrective Action Completed Date/Time 02-MAR-2022 14:30 | 25 | |
| Corrective Action Expected Completion Date/Time 15-MAR-2022 17:00 | 26 | |
| <p>If corrective action is/will not be completed within 14 days of discovery, describe any remaining steps and the formal schedule necessary to complete:</p> <p>27</p> | | |
| Date EPA Notified to Exceed 45 Days | 28 | |
| Date EPA Notified to Exceed 90 Days | 29 | |
| Baseline Date | 30 | |
| <p>Fields with a red triangle are required fields and must be filled out so the record can be created</p> <p>NA = Not applicable</p> | | |

| | | |
|--------------------------------|----------------|----------------------------|
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Attachment 2: List of Limited Values in the CAR Database

Finding Type (Item 11 on Page 5 of Attachment 1 Screenshot)

Create/Edit Finding Detail

CA #
2076

Finding Type
Control measures inadequate to meet non-numeric effluent limitations

Unauthorized release or discharge
 Numeric effluent limitation exceedance
 Control measures inadequate to meet non-numeric effluent limitations
 Control measures not properly operated or maintained
 Change in facility operations necessitated change in control measures
 Average benchmark value exceedance
 Other (describe) :

| | | |
|--------------------------------|----------------|----------------------------|
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Attachment 3: Example New Corrective Action Finding Notification

Page 1 of 2

From: owner-msgpcar_admin@maillist.lanl.gov on behalf of msgpcar_admin@lanl.gov
To: [Vandenbusch, Steve](#); [Martinez, Harold L](#); [Powell, Mark E](#); [Gorman, Bill](#); [Wilburn, Dianne Williams](#); [Caldwell, Jack Andrew](#); [Archuleta, Bernardo](#); [Vargas, Andrew J](#); [Baldonado, Richard](#); [Herrera, Gabriel Clarence](#); [Parrett, Dana](#); [Ulibarri, Phillip Edward](#); [Knight, Jacob Lamar](#); [Diaz, Vanessa Blanca](#); [Bruaw, Lacey Jo](#); [McMillan, Gary Edward](#)
Cc: msgpcar_admin@lanl.gov
Subject: New Corrective Action finding relative to the NPDES MSGP Program
Date: Friday, February 25, 2022 1:00:01 AM

This email is generated automatically by the National Pollutant Discharge Elimination System (NPDES) Multi-Sector General Permit (MSGP) Corrective Action Report (CAR) database to provide notification of discovery of a new condition requiring corrective action. As the recipient of this notification, you are responsible for immediately taking all reasonable steps necessary to minimize or prevent the discharge of pollutants until a permanent solution is installed and made operational.

"Immediately" requires initial action on the same day a condition is found. However, if a problem is identified at a time in the work day when it is too late to initiate corrective action (after 3 P.M.), the initiation must begin no later than the following work day morning.

At **TA-60-2 Warehouse on 24-FEB-22**, a condition requiring a corrective action was observed and a corrective action report was generated per the 2021 Multi-Sector General Permit requirements for stormwater controls at industrial sites. The condition(s) requiring a corrective action(s) is/are listed below.

CA #: 2076 located at TA-60-2 Warehouse

Person Identifying Condition: KNIGHT JACOB L

Description of finding: Control measures inadequate to meet non-numeric effluent limitations

Condition requiring corrective action: Metal recycle bins were uncovered. Recent wind damaged the bin covers beyond repair. New ones have been shipped to the facility for delivery soon. Bins will be hauled off for recycle.

Description of the corrective action taken or to be taken to eliminate the condition or further investigation: Replace bin covers as soon as practicable. Bins are scheduled to be hauled off to recycle in the next day or two.

Status: The Corrective Action was initiated on 24-FEB-22 and is expected to be completed by 10-MAR-22

Click [Here](#) to access the list of MSGP corrective action(s) not yet completed for IF
Click [Here](#) to access the list of MSGP corrective action(s) not yet completed.

The Deployed Environmental Professional (DEP) assigned to your organization/area is KNIGHT JACOB L

The color legend on the linked reports corresponds to the following schedule for corrective action completion as required by the 2021 MSGP:

| | | |
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Attachment 3: Example New Corrective Action Finding Notification

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You must complete the corrective action within 14 calendar days of discovery.

If completion of final corrective action within 14 days is not feasible, the reason(s) must be documented and a description of steps required, along with a formal schedule for completion (as soon as practicable). This documentation must be entered into the CAR database.

If the completion of corrective action will exceed the 45-day timeframe, you must take the minimum additional time necessary, provided that you notify Region 6 of the Environmental Protection Agency (EPA):

- of your intent to exceed 45 days
- your rationale for an extension
- and a completion date.

To assist the preparation of this notification, as a responsible individual, you must contact the EPC-CP Project Lead at 667-1312 for any corrective action that remains open 35 days or more, and provide a formal status of the progress for each corrective action. By day 40, the DEP must provide the EPC-CP Project Lead the rationale for potentially exceeding the required 45-day timeframe and a proposed completion date for each associated corrective action. The DEP must also amend the rationale and completion date in the CAR database.

An extension request must be submitted to Region 6 of the EPA by EPC-CP personnel prior to day 45 for final corrective actions not completed or estimated to be completed within 45 days of discovery.

The responsible individual must ensure compliance with the proposed completion schedule.

These intervals are not considered grace periods, but are defined schedules to ensure the conditions requiring corrective action do not persist indefinitely.

Where corrective actions result in changes to controls or any procedures documented in the facility's Storm Water Pollution Prevention Plan (SWPPP), the DEP must modify the SWPPP accordingly within 14 calendar days of completing corrective action work.

| | | |
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Attachment 4: Example Weekly Notification of Outstanding Corrective Action Findings

Page 1 of 1

From: owner-msgpcar_admin@maillist.lanl.gov on behalf of msgpcar_admin@lanl.gov
To: [Sandoval, Leonard Frank](#); [Wilburn, Dianne Williams](#); [Ulibarri, Phillip Edward](#); [Chavez, Lawrence Valenzuela](#); [McMillan, Gary Edward](#)
Cc: msgpcar_admin@lanl.gov
Subject: Weekly Notification of Outstanding NPDES MSGP Corrective Action finding(s)
Date: Sunday, March 6, 2022 5:00:01 PM

This email is generated automatically by the National Pollutant Discharge Elimination System (NPDES) Multi-Sector General Permit (MSGP) Corrective Action Report (CAR) database to provide notification of outstanding corrective action finding(s).

At TA-60 Asphalt Batch Plant , 1 total MSGP stormwater corrective action(s) has (have) not been completed

Click [Here](#) to access the list of MSGP corrective action(s) not yet completed for UI
Click [Here](#) to access the list of MSGP corrective action(s) not yet completed.

The Deployed Environmental Professional (DEP) assigned to your organization/area is SANDOVAL LEONARD F

The color legend on the linked reports corresponds to the following schedule for corrective action completion as required by the 2021 MSGP:

| Finding Type | AIM Level | Days to Complete upon Discovery | Document Steps and Formal Schedule not to Exceed Max Days | Extension Beyond Max Days |
|--|-----------|---------------------------------|---|---------------------------|
| Unauthorized release or discharge | NA | 14 | 45 | Notify EPA |
| Control measures inadequate to meet applicable water quality standards | NA | 14 | 45 | Notify EPA |
| Control measures inadequate to meet non-numeric effluent limitations | NA | 14 | 45 | Notify EPA |
| Control measures not properly operated or maintained | NA | 14 | 45 | Notify EPA |
| Change in facility operations necessitated change in control measures | NA | 14 | 45 | Notify EPA |
| Other (describe) : | NA | 14 | 45 | Notify EPA |
| Numeric effluent limitation exceedance | NA | 14 | 45 | Notify EPA |
| Average benchmark value exceedance | 1 | 14 | 45 | Not permitted |
| Average benchmark value exceedance | 2 | 14 | 45 | EPA Approval Required |
| Average benchmark value exceedance | 3 | 14 | 45 | EPA Approval Required |

The responsible individual must ensure compliance with the proposed completion schedule.

These intervals are not considered grace periods, but are defined schedules to ensure the conditions requiring corrective action do not persist indefinitely.

Where corrective actions result in changes to controls or any procedures documented in the facility's Storm Water Pollution Prevention Plan (SWPPP), the DEP must modify the SWPPP accordingly within 14 calendar days of completing corrective action work.

Attachment 5: Example Outstanding Corrective Action Report

| | | | |
|------|------------------------|-------------|----------------|
| | | Page 1 of 1 | 118432 |
| Home | Enter or Edit CAR Data | Reports | Administration |

Outstanding Corrective Action Report

As Of: 03/17/2022 04:22PM

| FOD | RAD | MSGP Facility Desc | CA # | AIM Level | Person Identifying Condition | Date Problem Identified | Corrective Action Initiate Date | Days To Take Action | Projected Completion Date | Days Open | EPA Notified of Intent to Exceed 45 Days | EPA Notified of Intent to Exceed 90 Days | Problem Description |
|-----|-----------------|-------------------------|------|-----------|------------------------------|-------------------------|---------------------------------|---------------------|---------------------------|-----------|--|--|---|
| UI | SIMPKINS BRET E | TA-60 Roads and Grounds | 2079 | NA | SANDOVAL LEONARD F | 16-MAR-2022 08:17 | 16-MAR-2022 08:17 | 0 | 29-MAR-2022 17:00 | 3 | - | - | Wood pallet with bags of ice melt next to transportiner 60-0287 and several bags of ice melt on the ground next to the transportiner that need to be picked up and covered. |

AIM Level = NA, 1, or 2

Action Must Be Taken

Indicates Immediate Action was not taken (i.e., <= 2 days of discovery)

Within 14 days of discovery

Between 35 and 45 days of discovery

Between 15 and 34 days of discovery

46 days of discovery or greater

AIM Level 3

Action Must Be Taken

Indicates Immediate Action was not taken (i.e., <= 2 days of discovery)

Within 60 days of discovery

Between 61 and 90 days of discovery

91 days of discovery or greater

ATTACHMENT 18: EPC-CP-QP-2105, MSGP STORMWATER VISUAL ASSESSMENTS

EPC-CP-QP-2105

Revision: 1



Effective Date: 09/08/2021

Next Review Date: 09/08/2024

**Environment, Safety, Health, Quality, Safeguards, and Security Directorate
Environmental Protection and Compliance – Compliance Programs Group
Quality Procedure**

MSGP Stormwater Visual Assessments

Hazard Grading: Low Moderate High/Complex

Usage Level: Reference UET Mixed: UET Sections: _____

Status: New Major Revision Minor Revision

Review w/No Changes Other: _____

Safety Basis: N/A USQ USI Number: _____

Document Author/Subject Matter Expert:

| | | | |
|------------------|---------------|-------------------|----------|
| Name: | Organization: | Signature: | Date: |
| Holly L. Wheeler | EPC-CP | Signature on File | 08-30-21 |

Derivative Classifier: Unclassified or _____

| | | | |
|------------------|---------------|-------------------|----------|
| Name: | Organization: | Signature: | Date: |
| Steven E. Wolfel | EPC-CP | Signature on File | 08-31-21 |

Approval Signatures:

| | | | |
|-----------------------------------|---------------|-------------------|----------|
| EPC-CP Reviewer: | Organization: | Signature: | Date: |
| Alethea Banar | EPC-CP | Signature on File | 08-31-21 |
| EPC-CP RLM: | Organization: | Signature: | Date: |
| Terrill W. Lemke, Team Leader | EPC-CP | Signature on File | 09-07-21 |
| EPC-CP RLM: | Organization: | Signature: | Date: |
| Taunia J. Sandquist, Group Leader | EPC-CP | Signature on File | 09-08-21 |

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To document a required read, Login to [UTrain](#), and go to the Advanced Search.*

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REVISION HISTORY

| Document Number and Revision | Effective Date | Effective Date |
|-------------------------------------|-----------------------|---|
| ENV-RCRA-QP-064, R0 | 7/09 | New document <i>MSGP Storm Water Visual Inspections</i> . |
| ENV-RCRA -QP-064, R1 | 3/10 | Clarifications and added attachments. |
| ENV-RCRA -QP-064, R2 | 2/12 | Biennial review/revision |
| EPC-CP-QP-064, R0 | 10/04/2017 | This document replaces ENV-RCRA-QP-064 R2. Converted into new format, and new organization name, clarified steps, updated attachments. |
| EPC-CP-QP-064, R1 | 10/09/2018 | Removed requirement to conduct visual assessment on filtered samples. Updated form to match text. |
| EPC-CP-QP-2105, R0 | 05/12/20 | Supersedes EPC-CP-QP-064, R1. Reformat to new EPC-CP template. Re-number procedure and forms to new EPC-CP procedure numbering system. |
| EPC-CP-QP-2105, R1 | 09/08/2021 | This document supersedes EPC-CP-QP-2105, R0. Updated LANL logo, changed "memorandum" to "cover sheet," changed "modified sampling quarters" to "MSGP monitoring quarters," "best management practice" to "stormwater control measure," and updated facility types and permit section reference to match new permit. |

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1.0 INTRODUCTION

Los Alamos National Laboratory (LANL) through Environmental Protection and Compliance – Compliance Programs (EPC-CP) conducts stormwater monitoring activities required pursuant to the National Pollutant Discharge Elimination System (NPDES), Multi-Sector General Permit (MSGP). The MSGP requires LANL to monitor stormwater runoff from industrial sites relative to potential pollutants.

1.1 Purpose

This procedure describes the process for conducting visual assessments of stormwater from permitted outfall locations where LANL conducts stormwater monitoring activities for compliance under the MSGP.

1.2 Scope

Requirements set forth in this document apply to active LANL industrial facilities covered by the MSGP. These facilities include, a warehouse, several metal fabrication areas/shops, a heavy equipment yard, an asphalt batch plant, roads and grounds, and a material recycling facility. Inspection waivers may be granted by EPC-CP for adverse weather conditions and unstaffed or inactive sites.

At least once each MSGP monitoring quarter, an unfiltered stormwater sample is collected from each discharge point covered by the MSGP and identified in the site-specific Stormwater Pollution Prevention Plan (SWPPP). The sample must be visually inspected for water quality characteristics. Stormwater samples are collected with an automated sampler, single-stage sampler, or by taking a grab sample. Visual assessments are **not** performed on filtered stormwater.

Visual assessments conducted under this procedure are documented using the Maintenance Connection Express™ (MC Express) web application on a tablet or notebook style computer. In the event of electronic hardware or web application failure, personnel may use a printed hard copy to document the work.

1.3 Applicability

This procedure applies to the EPC-CP technical staff and subcontractor personnel (as applicable) who conduct stormwater visual assessments during or after measurable storm events at MSGP outfalls.

A measurable storm event is identified in Part 4.1.3 of the MSGP as one that results in an actual discharge from the site that follows the preceding measurable storm event by at least 72 hours (three days).

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2.0 PRECAUTIONS AND LIMITATIONS

2.1 Precautions

The hazard level for the activities described in this procedure is **LOW**, therefore an Integrated Work Document (IWD) Part I is not required. If required by a Facility Operations Division (FOD), an IWD Part II (2101 Form) will address any site-specific requirements and training for the FOD.

Personnel will wear appropriate clothing (e.g., boots, long pants, etc.,) to perform work in the field.

Work may be discontinued during periods or conditions that make sites dangerous for worker safety or prevent personnel from safely accessing sites (e.g., weather-related events such as flash floods, flooding, lightning, wildfires, hail, icy roads, deep snow, or LANL operations such as firing shots or open burns).

If conditions prevent fieldwork, document these conditions on the work order. Multiple attempts can be documented on the original form. If the target date cannot be met, field personnel will contact the Program Lead no less than 24 hours before the target date for guidance.

2.2 Limitations

In MC Express, document responses to each question on a work order by clicking the expand arrow located on the right side of the task line and changing the “Complete” or “Failed” line to “Yes.” When using a hard copy form, mark the appropriate check box.

Throughout this process, field personnel will document comments and notations in the “Reading” field of the associated task line. Additional comments not documented in a “Reading” field can be entered in the “Comments” field of the same task line. If field personnel need more space, additional comments can be entered in the “Labor Report Update” field (see Section 4.3) when the work order is updated to “Complete” status. When using a hard copy form, document comments on the corresponding task line. If additional space is needed, comments can be entered in the “Labor Report” section at the bottom of the form.

Some terminology varies between the MC Express software and the Maintenance Connection (MC) desktop software.

- The “Reading” field in MC Express is the same field as “Reading Final” in MC desktop and “Meas.” on a hard copy (printed) work order.
- The “Complete” option in MC Express is the same as a “Yes” answer. The “Failed” option in MC Express is the same as a “No” answer. MC desktop and hard copy (printed) work orders use “Yes” and “No” terminology.

3.0 PREREQUISITE ACTIONS

3.1 Planning and Coordination

1. Schedule work to be completed by the target date appearing on the work order(s) or as requested by the MSGP Program Lead if a work order is not issued.

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2. As specified in the IWD Part II (if applicable), inform (e.g., by e-mail) facility contacts and/or the Deployed Environmental Professional (DEP) of the schedule for work and locations up to a week (preferred) before but no later than the day before (for minor changes) so work is added to the appropriate plan of the day.
3. Gather the required equipment (see Section 3.2) for the work to be done.
4. Using the Safari or Chrome web browser on a tablet or notebook style computer, log into the MC Express application (<http://express.maintenanceconnection.com>) and confirm that the work order list displayed matches your sites. If the work order lists do not match, contact EPC-CP Data Management personnel for clarification.
5. In MC Express, click on the appropriate work order number to open the work order. The work order will open in the display to the Work Order Summary page.
6. Click on the “Tasks” bar to navigate to the work order Tasks page. See MC Express screen shot examples in Attachment 1.
7. Always log out of MC Express when you have finished work OR work is interrupted.

3.2 Special Tools, Equipment, Parts, and Supplies

Ensure the following equipment is available in the field vehicle:

- Safety glasses
- Nitrile gloves
- Sturdy hiking boots or steel toed shoes with soles that grip
- Other facility specific personal protective equipment as required by the FOD
- Cell phone (only government cell phones are allowed in secure areas) (See <https://int.lanl.gov/policy/documents/P217.pdf> for requirements for using portable electronic devices on Laboratory property.)
- Current copy of this procedure
- Current copy of the IWD(s) Part II (as needed)
- Site map(s) (as needed)
- Current electronic work order or paper inspection form
- EPC-CP MSGP Sampling and Analysis Plan (SAP) most recent revision for the current monitoring year OR program specific monitoring plan
- Government issued electronic tablet with Safari web browser and Blackberry UEM™ app. (See <https://int.lanl.gov/policy/documents/P217.pdf> for requirements for using portable electronic devices on Laboratory property.)
- Necessary access and station keys

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- Access to accurate time measurement
- Clean replacement sample bottles (clear glass or clear poly)
- Paper towels

4.0 VISUALLY ASSESSING STORMWATER

Stormwater visual assessments are determined at a sampling station based on the current year SAP. See Attachment 1 for screen shot examples of EPC-CP-QP-2105 R1 Form 1, *MSGP Visual Assessment*, in MC Express. See Attachment 2 for an example of the form in hard copy format.

NOTE: Each item number listed in red below corresponds to a red numbered box on both screenshots and hard copy format.

4.1 Documenting Sample Information

- [1] Take the sample bottle with water out of the automated sampler or single stage jar off the ground or fill a clear sample bottle with a grab sample and wipe off exterior.
 - [a] Grab samples are collected during daylight hours in a wide-mouth clear glass or plastic container within 30 minutes of discharge from a storm event.
- [2] **ITEM 1:** Document the monitoring period by entering Jan-Mar, Apr-Jun, Jul-Sep, or Oct-Dec.
 - [a] IF the stormwater discharge collected is from a rain event from the previous monitoring period and the visual assessment is made in the following monitoring period,
THEN document monitoring period on the inspection to correspond to the period in which the rain event took place.
- [3] **ITEM 2:** Check the date and time stormwater discharge began and document by entering the date in the following formats: MM/DD/YY or MM-DD-YY. Time must be entered in 24-hour format.
 - [a] IF the discharge date/time is not available (e.g., precipitation report) when the visual is performed in the field,
THEN leave this Task Line incomplete and complete when the information is available.
- [4] **ITEM 3:** Check the date and time the sample was collected and document by entering the date in the following formats: MM/DD/YY or MM-DD-YY. Time must be entered in 24-hour format.
 - [a] IF the collection date/time is not available (e.g., precipitation report) when the visual is performed in the field,
THEN leave this Task Line incomplete and complete when the information is available.

| | | |
|---|--------------------|----------------------------|
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- [5] **ITEM 4:** Check the date and time stormwater was visually assessed and document by entering the date in the following formats: MM/DD/YY or MM-DD-YY. Time must be entered in 24-hour format.
- [6] **ITEM 5:** Describe the nature of the discharge (e.g., rain, snowmelt, hail) and the TOTAL amount of precipitation in inches from the event.
 - [a] IF the total amount of precipitation is not available (e.g., precipitation report) when the visual is performed in the field,
THEN leave this Task Line incomplete and complete when the information is available.
- [7] **ITEM 6:** Check that the sample was collected in the first 30 minutes of discharge and document.
 - [a] IF it is not possible to collect the sample within the first 30 minutes of discharge,
THEN the sample must be collected as soon as practicable after the first 30 minutes.
 - [b] The field inspector will document the reason a sample could not be collected within the first 30 minutes (e.g., lightning hazard, flooding).

4.2 Assessing Parameters

While conducting the visual assessment, personnel will attempt to relate any evidence of stormwater pollution that is observed in the sample to a pollutant source on the site. A cleanup of the site can be conducted if the pollutant source is known and well defined. Refer to EPC-CP-QP-2109, *MSGP Corrective Actions*, for specific steps to document, track, and report conditions of potential stormwater pollution.

- [1] **ITEM 7:** Observe the color of the discharge in the sample container. Document by describing the color.
- [2] **ITEM 8:** Observe any odors detected from the sample. Document by describing the odor (e.g., musty, sewage, sulfur, sour, solvents, petroleum/gas).
- [3] **ITEM 9:** Observe the clarity of the discharge. Document by describing the clarity (e.g., slightly cloudy, cloudy, opaque).

NOTE 1: Clarity is described as the depth in which you can look into or through water. For example, an individual can see through a clear glass of clean water in daylight. Generally, the clarity of the water is a good visual indicator of the purity of water. If the water is poor in clarity there is most likely suspended solids throughout the water.
- [4] **ITEM 10:** Observe any floating solids in the discharge. Document by describing the floating solids.

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NOTE 2: Careful examination will determine whether the solids are raw materials (e.g., product used to fabricate something, or ingredients used in a formulation) or waste materials (e.g., shavings, woodchips and sawdust, trash).

- [5] **ITEM 11:** Observe any settled solids in the sample. Document by describing the settled solids (e.g., sediment, vegetation, fine, course).

NOTE 3: Settled solids may be an indicator of unstable ground cover combined with a high-intensity stormwater runoff event.

- [6] **ITEM 12:** Observe any suspended solids in the sample. Document by describing the suspended solids (e.g., vegetation, ash, sediment, fine, course).

NOTE 4: Most often suspended solids include fine sediment. This may be an indication of an unstable channel with eroding banks. Some water may appear to be colored because of relatively fine particulate material in suspension such as sediment.

- [7] **ITEM 13:** Check to see whether the sample is free of foam. Gently shake the sample container. Document by describing any bubbles in or on the surface of the water and the color of the foam.

[a] IF it is determined that foam is caused by a pollutant, THEN complete the visual assessment and contact the EPC-CP MSGP Program Lead **immediately following completion of the visual assessment.**

[b] Follow-up action is required within 24 hours (see EPC-CP-QP-2109).

- [8] **ITEM 14:** Check to see whether the sample is devoid of any oil sheen. Document by describing the thickness and consistency (e.g., flecks, globs).

[a] IF an oil sheen is present, THEN contact the EPC-CP MSGP Program Lead **immediately following completion of the visual assessment.**

[b] Document in the Labor Report (**ITEM 17**) the source of the oil sheen, if existing stormwater control measures (SCMs) are effective in mitigation of potential pollutants, and if a new SCM needs to be installed.

[c] Follow-up action is required within 24 hours (see EPC-CP-QP-2109).

- [9] **ITEM 15:** Check to see whether the discharge is free of any other indicators of stormwater pollution not described in any other task line above.

- [10] IF there are any potential sources of pollutants observed on site, THEN document the following and contact the EPC-CP MSGP Program Lead within 24 hours of identification:

- Potential sources;

| | | |
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- Indicate if there are SCMs on site;
- Evaluate whether the SCMs are working correctly or need maintenance;
- Evaluate whether implementation of additional SCMs are needed to address the observed contaminant.

[11] Contact the FOD, DEP, and EPC-CP MSGP representative to inform them of the situation.

NOTE 5: Refer to EPC-CP-QP-2109, *MSGP Corrective Actions*, for specific steps to document, track, and report conditions of potential stormwater pollution.

[12] After all task lines have been completed, make sure you have clicked the “Save” bar at the bottom of the page.

4.3 Completing the Visual Assessment Form

[1] Ensure the inspection form has been filled out completely including information not available during the field inspection (e.g., date/time of discharge, date/time of sample collection, total precipitation amount).

[2] Click the “Back” arrow button  in the upper left-hand corner to exit the work order Tasks page and return to the Work Order Summary page.

[3] Click the checkered flag  in the upper right corner of the Work Order Summary page to open the Work Order Status Update page. MC Express auto-populates the date and time fields.

CAUTION

MC Express automatically changes the work order status to “Closed.”

[4] **ITEM 16:** Click on the expand arrow located on the right side of the “New Status” field and select “Completed” from the available dropdown menu.

[a] Ensure the auto-populated date and time is the date and time that the **work was completed** and **not the date/time the form was filled out**.

[b] IF work is performed over multiple days, THEN note the date and time the work began in the Labor Report field.

[c] To update the date or time, click the “Date” field and make necessary adjustments using the available timestamp application. Click “Set” to apply changes.

[d] IF using a hard copy form, THEN write the date and time the work was completed.

| | | |
|---|--------------------|----------------------------|
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- [5] **ITEM 17:** The field personnel must type or write his/her name in the “Labor Report Update” field.
- [6] Any additional notes, observations, or site conditions not documented in a task line “Reading” or “Comments” field can be documented in the “Labor Report Update” field.
- [7] Scroll down the page to the “Signature” bar and click the expand arrow on the left side of the bar to open the “Signature” field.
 - [a] **ITEM 18:** Capture an electronic signature by drawing with a finger on the tablet screen. The Lead Inspector is certifying that the information submitted is “true, accurate, and complete” by electronically signing the work order.
NOTE: The mouse must be used to sign electronically when using MC Express on a desktop screen (not a tablet).
 - [b] If using a hard copy form, the field personnel will sign his/her name and the date of when the form was signed.
 - [c] By signing either electronically or on hard copy, the field personnel is certifying that the information submitted is “true, accurate, and complete.”
- [8] Click on the “Save” bar at the bottom of the page to close the “Signature” field.

4.4 Completing the Certification Statement

The EPC-CP MSGP Program Lead or designee will send completed visual assessment forms to the DEPs at the end of each quarter that will contain a certification statement in the cover sheet. The duly authorized signatory may sign and date this certification statement rather than the certification line associated with each attached form. However, the cover sheet and associated completed forms must remain together.

5.0 TRAINING

All EPC-CP personnel that execute the activities specified in this procedure must meet the minimum qualification and training requirements for their position as identified EPC-CP-PIP-2101, *NPDES Multi-Sector General Permit Program Implementation Plan*. This will include “self-study” (required reading), recurring annually, for this procedure as assigned and documented in the LANL UTrain system. Other participating LANL groups may require training to local procedures and document completion of training.

Contract personnel that execute the activities specified in this procedure will be qualified and trained as required by the Exhibit D and Exhibit F. In addition, contract personnel are required to complete “self-study” (required reading) of this procedure.

| | | |
|---|--------------------|----------------------------|
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6.0 RECORDS

MSGP Visual Assessment forms are signed and certified by individual LANL facilities. These completed forms are maintained in the facility's SWPPP and managed by the facility's document management system. The MSGP team may retain a copy for reference purposes.

Below are records generated as a result of implementing this procedure that are identified by title and type.

| Record Title | QA Record | Non-QA Record |
|---|-------------------------------------|--------------------------|
| EPC-CP-QP-2105 R1 Form-1, <i>MSGP Visual Assessment</i> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

7.0 DEFINITIONS AND ACRONYMS

7.1 Definitions

See LANL [Definition of Terms](#).

Adverse weather conditions – Weather that prohibits collection of samples such as local flooding, high winds, hurricanes, tornadoes, electrical storms, etc. Could also include drought, extended frozen conditions, etc.

Clarity – Clearness or cleanness of appearance. This includes the visual observation of suspended sediment.

Color – Unpolluted water will be clear and colorless. Color must not be confused with clarity.

Control Measure – Refers to any stormwater control or other method (including narrative effluent limitations) used to prevent or reduce the discharge of pollutants to waters of the United States.

Floating solids – Particulate material floating on the surface of the water. Examples include raw or waste materials and common trash.

Foam – An accumulation of fine frothy bubbles formed in or on the surface of water. A mass of bubbles of air in a matrix of liquid film.

Measurable storm event – Precipitation that results in an actual discharge from the site that follows the preceding measurable storm event by at least 72 hours (3 days).

Odor – The property or quality of waters that affects or stimulates the sense of smell. Examples of odors that may be present are burnt oil, petroleum hydrocarbon, sewage, diesel, sulfuric, or detergent odors.

Oil sheen – The presence of rainbow-like colors glistening on the surface of a liquid. The color of oil sheen will vary dependent on thickness and consistency.

Settled solids – Settled particulate material i.e., heavier than water. Examples include sand, gravel, metal turnings, and glass.

| | | |
|---|--------------------|----------------------------|
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Suspended solids – Particulate materials that are floating between the bottom of the sample and the surface of the water.

Unstaffed and Inactive Sites – A facility maintaining certification within the SWPPP that it is inactive and unstaffed and visual examinations are not required.

7.2 Acronyms

See LANL [Acronym Master List](#).

| | |
|------------|---|
| DEP | Deployed Environmental Professional |
| EPC-CP | Environmental Protection and Compliance – Compliance Programs |
| FOD | Facility Operations Division |
| IWD | Integrated Work Document |
| LANL | Los Alamos National Laboratory |
| MC | Maintenance Connection |
| MC Express | Maintenance Connection MC Express web application |
| MSGP | Multi-Sector General Permit |
| NPDES | National Pollutant Discharge Elimination System |
| SAP | Sampling and Analysis Plan |
| SCM | Stormwater Control Measure |
| SWPPP | Stormwater Pollution Prevention Plan |

8.0 REFERENCES

EPC-CP-QP-2109, MSGP Corrective Actions

EPC-CP-PIP-2101, NPDES Multi-Sector General Permit Program Implementation Plan

9.0 ATTACHMENTS

Attachment 1: Screenshot Examples of EPC-CP-QP-2105 R1 Form 1, MSGP Visual Assessment in MC Express

Attachment 2: EPC-CP-QP-2105 R1 Form 1, MSGP Visual Assessment Hard Copy Example

| | | |
|---|--------------------|----------------------------|
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**Attachment 1: Screenshot Examples of EPC-CP-QP-2105 R1 Form 1
MSGP Visual Assessment in MC Express**

(Page 1 of 4)

Work Order Summary Page (Section 3.1, Steps 5 and 6)

The screenshot shows the MC Express mobile application interface. At the top, there is a blue header with a back arrow, the text "MC Express", and a menu icon. Below the header, the work order details are displayed: "WORK ORDER: MSGP-4344" and "Summary". A red notification banner reads "[MSGP00901] MSGP00901 TA-3-22 Power & Steam Plant Requested". Below this is a section titled "EXAMPLE MSGP Visual Assessment". A list of menu items follows: "Tasks" (with a red circle around the icon and a count of 15), "Assignments" (count 1), "Labor" (count 0), "Parts" (count 0), "Other Costs" (count 0), "Attachments" (count 2), and "Asset History" (count 121). At the bottom, there is a "More Work Order Detail..." option with a right arrow icon. The footer contains a "Refresh" button and a "List" button.

**Attachment 1: Screenshot Examples of EPC-CP-QP-2105 R1 Form 1
MSGP Visual Assessment in MC Express (cont.)**

(Page 2 of 4)

Work Order Tasks Page – Documenting Sample Information (Section 4.1, Steps 2-7)

MC Express

WORK ORDER: MSGP-4344

Tasks

Tasks

The result of this VA applies to associated SIOs as defined in the SWPPP, where applicable.

Sample information

- 1** 30 Document the monitoring period.
- 2** 40 Document the Date/Time Discharge began in the "Reading" field of this line (using mm/dd/yy hh:mm format).
- 3** 50 Document the Date/time sample collected in the "Reading" field of this line (using mm/dd/yy hh:mm format).
- 4** 60 Document the Date/time sample visually assessed in the "Reading" field of this line (using mm/dd/yy hh:mm format).
- 5** 70 Document the nature of discharge (e.g., rain, snowmelt). Document the TOTAL amount (in) in the "Reading" field of this line.
- 6** 80 Sample collected in first 30 minutes of discharge? If "Failed" or unknown, provide a reason.

Refresh List

MC Express

WORK ORDER: MSGP-4344

Edit Task

30 Document the monitoring period.

Reading

July-Sept

Initials

Failed?

No

Not Applicable?

No

Complete?

Yes

Comments

Cancel Save Save/Next

**Attachment 1: Screenshot Examples of EPC-CP-QP-2105 R1 Form 1
MSGP Visual Assessment in MC Express (cont.)**

(Page 3 of 4)

Work Order Tasks Page – Assessing Parameters (Section 4.2, Steps 1-9)

MC Express

WORK ORDER: MSGP-4344
Tasks

Parameters

- 110** Is sample colorless? If "Failed", describe.
- 120** Is sample odorless? If "Failed", provide description (e.g. musty, sewage, sulfur, sour, solvent, petroleum/gas)
- 130** Is sample clear? If "Failed", provide description (e.g., slightly cloudy, cloudy, opaque).
- 140** Is sample free of floating solids? If "Failed", describe if raw or waste material(s) in the comments of this line.
- 150** Is sample free of settled solids? If "Failed", provide description (e.g., fine, course).
- 160** Is sample free of suspended solids? If "Failed", provide description (e.g., fine, course).
- 170** Is sample foamless after gently shaking? If "Failed" describe foam color and location (e.g., 'on the surface' or 'in the sample').
- 180** Is sample devoid of an oil sheen? If "Failed", describe color and thickness (e.g. flecks, globs).
- 190** Is sample free of other obvious indicators of pollution? If "Failed", describe.

Refresh List

| | | |
|---|--------------------|----------------------------|
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**Attachment 1: Screenshot Examples of EPC-CP-QP-2105 R1 Form 1
MSGP Visual Assessment in MC Express (cont.)**

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Work Order Status Update Page – Completing the Form (Section 4.3, Steps 4-6)

The screenshot shows the 'MC Express' mobile application interface for updating a work order. At the top, it displays 'WORK ORDER: MSGP-4344' and 'Status Update'. Below this, there is a section for 'Issued / Completed' with a red box labeled '16' next to the 'New Status' dropdown menu, which is currently set to 'Completed'. Underneath, the 'Date' is set to '6/19/2018 10:48 AM'. A progress bar for 'Percent Complete' is shown at 100%. The 'Labor Report Update' section has a red box labeled '17' next to it, with a dropdown menu set to 'Jane Admin'. At the bottom, there are 'Cancel' and 'Save' buttons.

Work Order Status Update Page (Section 4.3, Step 7)

This screenshot shows the next step in the work order update process. It features the same header as the previous screenshot. The 'Signature' section is highlighted with a red box labeled '18', showing a digital signature of 'Jane Admin'. A '(Remove)' link is visible above the signature. The 'Cancel' and 'Save' buttons are at the bottom.

Attachment 2: EPC-CP-QP-2105 R1 Form 1, MSGP Visual Assessment Hard Copy Example
(Page 1 of 2)

Los Alamos National Laboratory

Work Order MSGP-4344

MSGP Monitoring Stations
Printed 6/19/2018 - 10:55 AM (Duplicate Copy)

| Maintenance Details | | |
|---|---|---|
| Requested By: Admin, Jane on 6/7/2018 10:51:00 AM | Target: 12/31/2018 | MSGP Program |
| Procedure: MSGP Quarterly Visual Assessment (EPC-CP-QP-2105 R1 Form 1) | Priority/Type: / Inspection | RG121.9 |
| Last PM: 5/5/2010 | Department: Utilities and Infrastructure | TA-60-2 Warehouse Monitored Outfall (026) |
| Reason: EXAMPLE MSGP Visual Assessment | | MSGP02601 |
| Special Instructions: | | Contact: Admin, Jane Phone: 123-4567 |

| Tasks | | | |
|---|--|-------|--|
| # | Description | Meas. | No N/A Yes |
| The result of this VA applies to associated SIOs as defined in the SWPPP, where applicable. | | | |
| Sample information | | | |
| 1 | 30 Document the monitoring Period | | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |
| 2 | 40 Document the Date/Time Discharge began in the "Reading" field of this line (using mm/dd/yy hh:mm format). | | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |
| 3 | 50 Document the Date/time sample collected in the "Reading" field of this line (using mm/dd/yy hh:mm format). | | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |
| 4 | 60 Document the Date/time sample visually assessed in the "Reading" field of this line (using mm/dd/yy hh:mm format). | | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |
| 5 | 70 Document the nature of discharge (e.g., rain, snowmelt). Document the TOTAL amount (in) in the "Reading" field of this line. | | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |
| 6 | 80 Sample collected in first 30 minutes of discharge? If "Failed" or unknown, provide a reason. | | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |
| Parameters | | | |
| 7 | 110 Is sample colorless? If "Failed", describe. | | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |
| 8 | 120 Is sample odorless? If "Failed", provide description (e.g. musty, sewage, sulfur, sour, solvent, petroleum/gas) | | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |
| 9 | 130 Is sample clear? If "Failed", provide description (e.g., slightly cloudy, cloudy, opaque). | | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |
| 10 | 140 Is sample free of floating solids? If "Failed", describe if raw or waste material(s) in the comments of this line. | | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |
| 11 | 150 Is sample free of settled solids? If "Failed", provide description (e.g., fine, coarse). | | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |
| 12 | 160 Is sample free of suspended solids? If "Failed", provide description (e.g., fine, coarse). | | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |
| 13 | 170 Is sample foamless after gently shaking? If "Failed" describe foam color and location (e.g., 'on the surface' or 'in the sample'). | | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |
| 14 | 180 Is sample devoid of an oil sheen? If "Failed", describe color and thickness (e.g. flecks, globs). | | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |
| 15 | 190 Is sample free of other obvious indicators of pollution? If "Failed", describe. | | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |

| Labor Report | | | |
|---|---|-----------|-----------------------|
| 16 | Completed: 6/19/2018 10:48:00 AM | | |
| 17 | Report: Jane Admin | | |
| 18 | | 6/19/2018 | |
| | Signature / Name | Date | Signature / Name Date |
| I confirm the information as recorded is true, accurate and complete. | | | |

| | | |
|---|--------------------|----------------------------|
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Attachment 2: EPC-CP-QP-2105 R1 Form 1, MSGP Visual Assessment Hard Copy Example (cont.)

(Page 2 of 2)

CERTIFICATION STATEMENT

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations".

(Signatory must meet definition in Section B.11.A, eg. FOD, Ops Mgr, EPC Group or Team Leader)

19 Print name and title: _____

Signature: _____ Date: _____

**ATTACHMENT 19: EPC-CP-TP-2103, INSPECTING ISCO STORMWATER RUNOFF
SAMPLERS AND RETRIEVING SAMPLES**

| | | |
|----------------------------|------------------------------|---|
| EPC-CP-TP-2103 | Revision: 0 |  |
| Effective Date: 02/24/2020 | Next Review Date: 02/24/2023 | |

Environment, Safety, Health, Quality, Safeguards, and Security Directorate
Environment Protection and Compliance – Compliance Programs Group
Technical Procedure

Inspecting ISCO Stormwater Runoff Samplers and Retrieving Samples

Hazard Grading: Low Moderate High/Complex

Usage Level: Reference UET Mixed: UET Sections: _____

Status: New Major Revision Minor Revision

Review w/No Changes Other: New EPC-CP format and numbering system

Safety Basis: N/A USQ USI Number: _____

Document Author/Subject Matter Expert:

| | | | |
|------------------|---------------|-------------------|------------|
| Name: | Organization: | Signature: | Date: |
| Holly L. Wheeler | EPC-CP | Signature on File | 02-20-2020 |

Derivative Classifier: **Unclassified** or _____

| | | | |
|------------------|---------------|-------------------|------------|
| Name: | Organization: | Signature: | Date: |
| Steven E. Wolfel | EPC-CP | Signature on File | 02-19-2020 |

Approval Signatures:

| | | | |
|-----------------------|---------------|-------------------|------------|
| EPC-CP Reviewer: | Organization: | Signature: | Date: |
| Terrill W. Lemke | EPC-CP | Signature on File | 02-19-2020 |
| EPC-CP RLM: | Organization: | Signature: | Date: |
| Taunia Van Valkenburg | EPC-CP | Signature on File | 02-24-2020 |

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To document a required read, Login to [UTrain](#), and go to the Advanced Search.

| | | |
|--|--------------------|----------------------------|
| Inspecting ISCO Stormwater Runoff Samplers & Retrieving Samples | No: EPC-CP-TP-2103 | Page 2 of 27 |
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REVISION HISTORY

| Document Number and Revision <i>[Include revision number, beginning with Revision 0]</i> | Effective Date <i>[Document Control Coordinator inserts effective date]</i> | Description of Changes <i>[List specific changes made since the previous revision]</i> |
|--|---|---|
| ENV-RCRA-QP-047, Rev. 0 | 03/11 | New Document. |
| ENV-RCRA-QP-047, Rev. 1 | 02/13 | Annual Review and Revision |
| EPC-CP-QP-047, Rev. 2 | 09/06/2017 | Review and revision. Updated document to new template and new group name. Clarified steps. Modified inspection form EPC-CP-Form-1010. Added crosswalk to electronic form in MC Express. |
| EPC-CP-TP-2103 R0 | 02/24/2020 | Supersedes EPC-CP-QP-047 R2. Reformat to new EPC-CP template. Re-number procedure and forms to new EPC-CP procedure numbering system. Minor edits. |

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| Inspecting ISCO Stormwater Runoff Samplers & Retrieving Samples | No: EPC-CP-TP-2103 | Page 4 of 27 |
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1.0 INTRODUCTION

Los Alamos National Laboratory (LANL) through Environmental Protection and Compliance-Compliance Programs (EPC-CP) conducts stormwater monitoring activities required pursuant to the National Pollutant Discharge Elimination System (NPDES), Multi-Sector General Permit (MSGP) at LANL. The MSGP requires LANL to monitor stormwater runoff from industrial sites relative to potential pollutants.

1.1 Purpose

This procedure describes the process for inspecting ISCO automated samplers and retrieving stormwater runoff samples from outfall locations where LANL conducts stormwater monitoring pursuant to NPDES MSGP requirements. This procedure may also be used for other Associate Laboratory Directorate of Environment, Safety, Health, Quality, Safeguards, and Security (ESHQSS) stormwater monitoring activities as needed.

1.2 Scope

The discharge of stormwater from specified industrial sites at LANL is regulated under the NPDES MSGP. The Laboratory's MSGP requires qualitative and quantitative stormwater monitoring (e.g., sample collection) to evaluate the effectiveness of control measures. Automated ISCO samplers coupled with liquid level actuators are used at MSGP monitoring stations and in support of other stormwater monitoring programs. Refrigerated (Avalanche®) and/or non-refrigerated (Model 3700) samplers are deployed and configured with multi-battery arrays, solar panels, and surge protectors.

Field personnel are required to inspect the sampling station while retrieving water samples during MSGP stormwater monitoring periods and at other intervals determined by the program or as directed by the MSGP Program Lead.

Inspections and sample retrieval conducted under this procedure should be documented using the Maintenance Connection Express™ (MC Express) web application on a tablet or notebook style computer. (In the event of electronic hardware or web application failure, personnel may use a printed hard copy to conduct inspection and sample retrieval.)

1.3 Applicability

This procedure applies to the EPC-CP technical staff and subcontractor personnel (as applicable) conducting activities at automated stormwater sampling stations used for monitoring industrial stormwater discharge under the MSGP or other stormwater monitoring programs.

The MSGP Program Lead is primarily responsible for this procedure. EPC-CP personnel are appointed responsibility for a subset of sampling stations. Other stormwater monitoring programs or projects utilizing this procedure will refer to program or project specific roles and responsibilities.

| | | |
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2.0 PRECAUTIONS AND LIMITATIONS

2.1 Precautions

The hazard level of the activities in this procedure is **MODERATE**. Hazards in the work described in this procedure are controlled thorough a site specific Integrated Work Document (IWD) Part I. The IWD Part II (Form 2101) addresses site specific requirements and training by the Facility Operations Division (FOD).

Personnel performing steps in this procedure that involve electrical equipment **MUST** be trained to LANL electrical safety standards as prescribed in the IWD before performing those steps.

Personnel must wear appropriate clothing (e.g., boots, long pants, etc.) to perform work in the field.

Work may be discontinued during periods or conditions that make sites dangerous for worker safety or prevent personnel from safely accessing sites (e.g., weather-related events such as flash floods, flooding, lightning, wildfires, hail, icy roads, deep snow, or LANL operations such as firing shots or burns).

In the event of pest infestation (e.g., wasp or rat nests), do not attempt to remove the pest yourself. Call LANL Pest Control to coordinate the removal of the pest(s).

If conditions prevent field work, document the conditions in the Labor Report Update field on the form and notify the Program Lead or designee within 24 hours. Multiple attempts can be documented on the original form. If the target date cannot be met, the field personnel must contact the Program Lead no less than 24 hours before the target date for guidance.

2.2 Limitations

In MC Express, document responses to each question on a work order by clicking the expand arrow located on the right side of the task line and changing the “Complete” or “Failed” or “N/A” line to “Yes”. When using a hard copy form, mark the appropriate check box.

Throughout this process, the field personnel will document comments and notations in the “Reading” field of the associated task line. Additional comments not documented in a “Reading” field can be entered in the “Comments” field of the same task line. If field personnel need more space, additional comments can be entered in the “Labor Report Update” field (see Section 4.10) when the work order is updated to “Complete” status. When using a hard copy form, document comments on the corresponding task line. If additional space is needed, comments can be entered in the “Labor Report” section at the bottom of the form.

Some terminology varies between the MC Express software and the Maintenance Connection desktop software.

- The “Reading” field in MC Express is the same field as “Reading Final” in Maintenance Connection desktop and “Meas.” on a hard copy (printed) work order.

| | | |
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| Inspecting ISCO Stormwater Runoff Samplers & Retrieving Samples | No: EPC-CP-TP-2103 | Page 6 of 27 |
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- The “Complete” option in MC Express is the same as a “Yes” answer; the “Failed” option in MC Express is the same as a “No” answer. Maintenance Connection desktop and hard copy (printed) work orders use “Yes” and “No” terminology.

3.0 PREREQUISITE ACTIONS

3.1 Planning and Coordination

1. Ensure that field personnel have access to accurate time measurement at the Site. When at the site, the clock time on the ISCO sampler must be set to Mountain Standard Time (MST) at all times, with no daylight saving time adjustment.
2. Schedule work to be completed by the target date appearing on the work order(s) or as requested by the MSGP Program Lead if a form is not issued.
3. Obtain any necessary additional paperwork before conducting this work, including IWD’s, and excavation permits (as necessary).
4. As specified in the IWD, inform (e.g., by e-mail) facility contacts and/or Deployed Environmental Professional of the schedule for sampler work and locations up to a week before (preferred), but no later than the day before (for minor changes) so work may be added to the appropriate plan of the day.

NOTE: For some FODs like the Utilities and Institutional Facilities FOD, MSGP stormwater monitoring activities are on a standing plan of the day. However, this must be requested each year at the beginning of the monitoring season.

5. Gather the required equipment (see Section 3.3) for the work to be done.
6. Using the Safari or Chrome web browser on a tablet or notebook style computer, navigate to <http://express.maintenanceconnection.com> and select English from the available dropdown menu.
7. Log into the MC Express application (<http://express.maintenanceconnection.com>) and confirm that the work order list displayed matches your sites. If the work order lists do not match, contact EPC-CP Data Management personnel for clarification.
8. In MC Express, click on the appropriate work order number to open the work order. The work order will open in the display to the Work Order Summary page.
9. Click on the “Tasks” bar to navigate to the work order Tasks page. See MC Express screen shot examples in Attachment 1.
10. Always log out of MC Express when you have finished work OR if work is interrupted.

3.2 Performance Documents

Personnel performing this procedure will be familiar with the most current versions of the following plans and operation manuals if this equipment is utilized. Copies of the following are not required to be on the job site.

| | | |
|--|--------------------|----------------------------|
| Inspecting ISCO Stormwater Runoff Samplers & Retrieving Samples | No: EPC-CP-TP-2103 | Page 7 of 27 |
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- EPC-CP MSGP Sampling and Analysis Plan (SAP) most recent revision for the current monitoring year OR project specific monitoring plan;
- ISCO 3700 Portable Samplers Installation and Operation Guide;
- ISCO Avalanche® Installation and Operation Guide; or
- ISCO 701 pH/Temperature Module Installation and Operation Guide (if equipped at a station).

3.3 Special Tools, Equipment, Parts, and Supplies

Ensure the following equipment is available.

- Safety glasses;
- Sturdy hiking boots or steel toed shoes (as needed) with soles that grip and other required facility specific Personal Protective Equipment;
- Nitrile gloves;
- Leather gloves;
- Cell phone (only government cell phones are allowed in secure areas). (See <https://int.lanl.gov/policy/documents/P217.pdf> for requirements for using portable electronic devices on Laboratory property);
- Copy of this procedure;
- Copy of the IWD;
- EPC-CP MSGP SAP most recent revision for the current monitoring year OR project specific monitoring plan;
- Site Map(s) (as needed);
- Current electronic or paper inspection form EPC-CP-TP-2103 Form 1, *MSGP ISCO Sampler Inspection and Sample Retrieval*;
- Government issued electronic tablet with Safari or Chrome web browser and Blackberry UEM™ app. (See <https://int.lanl.gov/policy/documents/P217.pdf> for requirements for using portable electronic devices on Laboratory property);
- Water Sample Collection and Processing Log/Field Chain of Custody (SCPL) (see EPC-CP-QP-2106);
- Access to accurate time measurement;
- Necessary access and station keys;
- Insulated hand tools;
- Charged spare battery(s);

| | | |
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| Inspecting ISCO Stormwater Runoff Samplers & Retrieving Samples | No: EPC-CP-TP-2103 | Page 8 of 27 |
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- Battery voltage tester;
- Clean spare tubing (pump, suction, discharge types, sampler specific);
- Certified clean replacement sample bottles (glass and poly);
- Spare/replacement sampler parts (liquid level actuator, distributor arm);
- Shovel;
- Wooden stakes;
- Plastic wire “zip” ties;
- Coolers with ice or Blue Ice®;
- Paper Towels;
- Marker pen (permanent, waterproof);
- Ball point pen;
- Re-sealable zipper storage bags (e.g., Ziploc®);
- Custody seals; and
- 0.45 micron filter (where applicable).

4.0 INSPECTING THE SAMPLER AND SAMPLE RETRIEVAL

Inspection of ISCO samplers is performed weekly during the sampling season. Samples retrieved are determined at a sampling station based on the current year SAP. See Attachment 1 for screen shot examples of EPC-CP-TP-2103 R0 Form 1, *ISCO Sampler Inspection and Sample Retrieval* in MC Express. See Attachment 2 for an example of the form in hard copy format.

NOTE: Each ITEM number listed in red font below corresponds to a red numbered box on both screenshots (Attachment 1) and hard copy format (Attachment 2).

4.1 Inspecting the Sampler

4.1.1 On Arrival

- [1] Remove the top cover from the sampler.
- [2] **ITEM 1:** Check and document the sampler is ON and its condition upon arrival. Explain any non-functional status.
 - [a] IF a sampler has been inactivated (e.g., sample collection completed) prior to this inspection but continues to appear on the inspection form, THEN answer this task line question “N/A.”
 - [b] Subsequent questions regarding the inactive sampler may be left unanswered in this section.

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- [3] **ITEM 2:** Check and document the ISCO programming displays the following.
 - [a] ISCO 3700 sampler display should indicate “Sampler Inhibited”
 - [b] Avalanche sampler display should indicate “Program Disabled”
 - [c] Document messages other than those in [a] and [b] (e.g., “Done X samples,” “sampler off,” etc.).
- [4] IF there is no indication of flow and the sampler triggered due to a non-flow event, THEN describe why the sampler triggered (e.g., animal, tumbleweed, etc.).
- [5] **ITEM 3:** Check and document the sampler is set to the correct MST +/- no more than 1 minute. Do **NOT** use Daylight Savings Time.
 - [a] IF the sampler is set incorrectly, THEN reprogram for the correct MST.
 - [b] Describe the work performed and correction applied (e.g., “ISCO clock was X minutes slow”).
- [6] If the location has more than one sampler, complete Steps 1 through 5 for each sampler.

4.1.2 Water Collection Information

- [1] Don nitrile gloves and safety glasses.
- [2] Remove the center section from the sampler.
- [3] **ITEM 4:** Document evidence of storm water flow at the sampling location by describing the evidence of flow (e.g., sediment or vegetation movement, erosion, standing water).
 - [a] IF the sampler did not trip but there is evidence of flow, THEN document the date and time storm water discharge began from the precipitation report.
 - [b] IF the sampler tripped or collected storm water, THEN document the date/time stamp from the sampler (or from the precipitation report if the sampler did not record a date/time stamp).
- [4] **ITEM 5:** Document that storm water is collected.
 - [a] Document if the water is taken by grab sample.
 - [b] Complete the Bottle Information (**ITEM 20**) in Section 4.1.7.
 - [c] Follow the steps in thru Section 4.2 Step 16 to retrieve samples.
- [5] **ITEM 6:** For Avalanche samplers only, record the current refrigerator temperature in degrees Celsius (°C) when water is collected.

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| Inspecting ISCO Stormwater Runoff Samplers & Retrieving Samples | No: EPC-CP-TP-2103 | Page 10 of 27 |
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- [a] IF unable to review the temperature, THEN check “No” and describe the condition (e.g., dead battery, electrical short).
- [6] **ITEM 7:** For Avalanche samplers equipped with an ISCO pH and Temp Module, check and document a pH measurement was taken on the collected water.
 - [a] Record the pH measurement taken at the time Bottle 1 was filled as “Average:Minimum:Maximum.”
 - [b] IF unable to review the pH, THEN check “No” and describe the condition (e.g., damaged meter).

4.1.3 Water Retrieval Information

- [1] **ITEM 8:** Check and document whether a sample volume was retrieved from the sampler and taken off site.
 - [a] Record the estimated total volume in liters (L) or milliliters (ml) **taken off site.**
- [2] **ITEM 9:** Check and document whether a visual assessment of the water was performed (refer to EPC-CP-QP-2105).
 - [a] Do **NOT** conduct a visual assessment on a filtered sample. Record “Filtered sample.”

4.1.4 On Departure

WARNING
You MUST be trained to LANL electrical safety standards as prescribed in the IWD before performing Steps 2 and 3.

- [1] Prepare yourself in accordance with the IWD for electrical work (e.g. wear safety glasses and leather gloves, use insulated tools, no jewelry or anything metal hanging from body, etc.,).
- [2] **ITEM 10:** Check that all cable and electrical connections are attached and firmly tightened (not loose) upon departure.

NOTE: Connections may work loose over time due to temperature changes and if there are dis-similar metals at the connection points. The loose connections can introduce voltage spikes, which inherently cause current spikes that may result in blown fuses.

 - [a] IF the cables require replacement, connections require tightening, or other maintenance performed, THEN describe the work performed (e.g., “tightened connectors on battery).
 - [b] IF maintenance cannot be completed at the time of inspection,

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THEN describe the condition (e.g. cables chewed through by animal) and follow-up work needed (e.g., replace cables).

- [3] **ITEM 11:** Use a voltage meter to check the power supply.
 - [a] Record the voltage of the battery(ies) in volts (V).
 - [b] Document if battery voltage is acceptable upon departure from the site (≥ 11.7 for non-floating charged batteries at ISCO 3700 samplers and ≥ 11.0 for floating-charged batteries at Avalanche samplers).
 - [c] Replace a battery with a charged battery when the voltage is not acceptable.
 - [d] Check the voltage of the solar panel if access can be gained to the weather protected terminal covers on the back of the panel.
- [4] Contact the program Electrical Safety Officer if any issues with wiring or batteries cannot be resolved on site.

4.1.5 Equipment Specific Tasks

- [1] **ITEM 12:** Check and document the sampler passes the diagnostic test. (Refer to EPC-CP-TP-2102 or sampler Operator’s Guide for instructions on running a diagnostics test.)
 - [a] IF a sampler has been inactivated (e.g., sample collection completed) prior to this inspection but continues to appear on the inspection form, THEN answer this task line question as “N/A.” Subsequent questions regarding this sampler may be left unanswered in this section.

CAUTION
Only reset the pump counts after replacing the internal pump tubing.

- [2] IF the internal pump tubing has reached or exceeded the preset pump counts (500,000 for ISCO 3700s, 1,000,000 for Avalanches), THEN replace the pump tubing and reset the pump counts.
- [3] **ITEM 13:** Check and document the sample tubing is free or clear of debris.
 - [a] Clear obstructions as needed and document maintenance performed.
- [4] Check the physical condition of sample tubing and vent tubing.
 - [a] Replace tubing as needed and document maintenance performed.
- [5] **ITEM 14:** Check and document the sample tubing has passed a suction test.
- [6] **ITEM 15:** Check and document the sampler is ON prior to departing the site.
- [7] **ITEM 16:** Check and document the liquid level actuator has been set to “Latch” prior to departing the site.

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- [a] IF the sampler tripped and requires reset of the sampling program, THEN reset the actuator by toggling the switch to “Reset” and back to “Latch.”
- [8] **ITEM 17:** Check and document the ISCO programming displays the following.
 - [a] ISCO 3700 sampler display should indicate “Sampler Inhibited.”
 - [b] Avalanche sampler display should indicate “Program Disabled.”
 - [c] Reprogram the sampler as needed and document maintenance performed.
- [9] Replace and secure the sampler top cover and secure the sampler shelter (if sampler is in a shelter).
- [10] If the location has more than one sampler, complete Steps 1 through 11 for each sampler.

4.1.6 Maintenance Information

- [1] **ITEM 18:** Document maintenance completed while on site that is not documented elsewhere on the work order by describing the work performed.

NOTE: Maintenance items may include (but are not limited to) site clearing, installing new or additional equipment, removing equipment, animal/pest mitigation, problems with equipment location, etc.
- [2] IF a battery was replaced, THEN record the voltage of the new battery and the battery identification number.
 - [a] IF the battery does not have an identification number, THEN:
 - Contact the MSGP Program Lead to have one assigned.
 - Paint or write the number in a permanent manner on the battery.
- [3] **ITEM 19:** Document if maintenance is needed that was not completed while on site and that is not documented elsewhere on the work order.
 - [a] Describe on the work order the follow-up maintenance needed.
 - [b] When the maintenance has been complete, describe the actions taken to complete the work on the original work order.
 - [c] Record the maintenance completion date and time on the original work order.

4.1.7 Bottle Information

- [1] **ITEM 20:** Document water collected by recording the following information for each bottle by position number in the carousel.

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- Date (MM/DD/YY or MM-DD-YY) and time the ISCO collected water,
 - Volume (L or ml) of water in the bottle,
 - Type of bottle (e.g. G for glass, P for poly),
 - Specific ISCO displayed message, if present.
- [2] IF the sampler(s) did not trigger,
THEN answer the task line question as “N/A” for Bottle #1 of each sampler and leave the other Bottle task lines unanswered.
- [3] IF a sampler has been inactivated (e.g., sample collection completed) prior to this inspection but continues to appear on the inspection form,
THEN answer the task line question as “N/A”. Subsequent questions regarding this sampler may be left unanswered in this section.
- [4] Proceed to Section 4.4 if no water was collected.

4.2 Retrieving Samples

Refer to the flow diagram in Attachment 3 as an aid in determining sample retrieval.

- [1] Don nitrile gloves and safety glasses.
- [2] Add up the estimated volume of water collected in the sampler.
- [3] Check that the estimated total volume of water in glass and poly matches the required volume for the specific location identified in the MSGP SAP.
- NOTE 1:** The volume of water required to complete analytical may vary by monitored location.
- [a] IF the sample volume is sufficient to fulfill all analytical requirements,
THEN continue to Step 4.
- [b] IF the sample volume is sufficient to fulfill part of the analytical requirements,
THEN consult the prioritization order on the MSGP SAP to determine which analytical to fulfill,
OR contact the MSGP Data Manager. Continue to Step 4 but retrieve only the volume needed.
- [c] IF the collected sample will NOT fulfill the minimum required volume for any analytical,
THEN:
- Complete a Visual Assessment if the sample is not filtered (refer to EPC-CP-QP-2105),
 - Record estimated total volume (L or ml) retrieved as “0” in **ITEM 8**,

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- Return all water to the ground at the sampling location,
- Skip to Step 11.

CAUTION

ISCO Avalanche samplers are programmed to cool samples to 4°C. If water is collected and the refrigerator temperature reads higher than 6°C, **do not** retrieve samples that require ICE preservation. Samples do not meet preservation requirements.

- [4] Remove filled and partially filled bottles from the carousel one at a time.
- [5] For samples to be retrieved,
 - [a] Immediately place lids onto the sample bottles.
 - [b] Securely seal the lids.
 - [c] Place a custody seal on each bottle.
- [6] Write the following on each retrieved sample bottle.
 - Date and time collected (e.g., recorded by the ISCO sampler)
 - Sampler Location number
- [7] Conduct a Visual Assessment on a non-filtered sample (refer to EPC-CP-QP-2105).
- [8] Record estimated total volume (L or ml) retrieved in **ITEM 8**.
- [9] Place retrieved sample bottles in a cooler with blue ice (or equivalent).
- [10] Return any excess stormwater collected that exceeded the amount required to the ground at the location collected.
- [11] Install new certified clean sample bottles in the carousel to replace retrieved bottles.
 - [a] The number and type of bottles may vary. Ensure bottles match the configuration specified in the MSGP SAP.
- [12] Replace the 0.45-micron filter as needed.

NOTE 2: Consult the most current revision of the MSGP SAP for specifics.
- [13] IF the sampler is turned OFF for the quarter but new certified clean sample bottles and/or the filter have not been replaced, THEN note this as follow-up maintenance required in **ITEM 19**.
- [14] Replace and secure the center section of the sampler.
- [15] If the location has more than one sampler, complete Section 4.1.7 thru Section 4.2 for each sampler.
- [16] Return to Section 4.1.2, Step 5.

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4.3 Removing Stormwater Samples from the field

- [1] Transport retrieved samples and corresponding SCPL (see EPC-CP-QP-2106) to the EPC-CP Stormwater Program Laboratory at TA-59-1.
- [2] Sign and date/time the SCPL and place it with the samples in the refrigerator.
- [3] Ensure custody seal is intact on each sample bottle.
- [4] Refer to EPC-CP-QP-2106, *Processing MSGP Stormwater Samples* for processing and submitting samples for shipping to the SMO.
- [5] Ensure the EPC-CP Stormwater Program Laboratory door is locked upon exit.

4.4 Completing the Inspection Form

See Attachment 1 for completing the form in MC Express and Attachment 2 for a hard copy example.

- [1] After all task lines have been completed, make sure you have clicked the “Save” bar at the bottom of the page.
- [2] Click the “Back” arrow button  in the upper left hand corner to exit the work order Tasks page and return to the Work Order Summary page.
- [3] Click the checkered flag  in the upper right corner of the Work Order Summary page to open the Work Order Status Update page. MC Express auto-populates the date and time fields.

CAUTION
MC Express automatically changes the work order status to “Closed.”

- [4] **ITEM 21:** Click on the expand arrow located on the right side of the “New Status” field and select “Completed” from the available dropdown menu.
 - [a] Ensure the date and time auto-populated are the date and time the **work was completed** and **not the date/time the form was filled out**.
 - [b] IF work is performed over multiple days, THEN note the date and time the work began in the Labor Report field.
 - [c] To update the date or time, click the “Date” field and make necessary adjustments using the available timestamp application. Click “Set” to apply changes.
 - [d] IF using a hard copy form, THEN write the date and time the work was completed.
- [5] **ITEM 22:** The field personnel must type or write his/her name in the “Labor Report Update” field.

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- [6] Additional notes, observations, or site conditions not documented in a task line “Reading” or “Comments” field can be documented in the “Labor Report Update” field.
- [7] Scroll down the page to the “Signature” bar and click the expand arrow on the left side of the bar to open the “Signature” field.
 - [a] **ITEM 23:** Capture an electronic signature by drawing with a finger on the tablet screen.
NOTE: The mouse must be used to sign electronically when using MC Express on a desktop screen (not a tablet).
 - [b] If using a hard copy form, the field personnel will sign his/her name and date when the form is signed.
 - [c] The field personnel is certifying that the information submitted is “true, accurate, and complete” by electronically signing work order.
- [8] Click on the “Save” bar at the bottom of the page to close the “Signature” field.
- [9] IF completing a hard copy,
THEN return the form to the MSGP Program Lead.

5.0 TRAINING

Personnel performing steps in this procedure that involve electrical equipment **MUST** be trained to LANL electrical safety standards as prescribed in the IWD before performing those steps.

All EPC-CP personnel that execute the activities specified in this procedure must meet the minimum qualification and training requirements for their position as identified EPC-CP-PIP-2101, NPDES Multi-Sector General Permit Program. This will include “self-study” (required reading) for this procedure as assigned and documented in accordance with ADESH-TPP-301, *ADESH Training Program Plan*. Other participating LANL groups may require training documentation pursuant to local procedures.

Contract personnel that execute the activities specified in this procedure will be qualified and trained as required by the Exhibit D and Exhibit F. In addition, contract personnel will be required to complete “self-study” (required reading) of this procedure.

6.0 RECORDS

EPC-CP is the Office of Record for this document and must be maintained in accordance with [PD1020](#), *Document Control and Records Management* and ADESH-AP-006, *Records Management Plan*. Records generated by this document will be submitted to the Records Management designated point of contact or document manager for document management.

Below are records generated as a result of implementing this procedure. Records generated are identified by title and type.

| | | |
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| Record Title | QA Record | Non-QA Record |
|---|-------------------------------------|--------------------------|
| EPC-CP-TP-2103 R0 Form 1, <i>ISCO Sampler Inspection and Sample Retrieval</i> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

7.0 DEFINITIONS AND ACRONYMS

7.1 Definitions

See LANL [Definition of Terms](#).

7.2 Acronyms

See LANL [Acronym Master List](#).

| | |
|------------|---|
| °C | Degrees in Celsius |
| EPC-CP | Environmental Protection and Compliance-Compliance Programs |
| FOD | Facility Operations Division |
| IWD | Integrated Work Document |
| L | Liter |
| LANL | Los Alamos National Laboratory |
| MC Express | Maintenance Connection MC Express web application |
| ml | Milliliter |
| MSGP | Multi-Sector General Permit |
| MST | Mountain Standard Time |
| NPDES | National Pollutant Discharge Elimination System |
| SAP | Sampling and Analysis Plan |
| SCPL | Sample Collection and Processing Log/Field Chain of Custody |
| V | Volts |

8.0 REFERENCES

EPC-CP-QP-2105, MSGP Stormwater Visual Assessments

EPC-CP-QP-2106, Processing MSGP Stormwater Samples

EPC-CP-TP-2102, Installing, Setting Up, and Operating ISCO Samplers

EPC-CP-PIP-2101, NPDES Multi-Sector General Permit Program Implementation Plan

ADESH-TPP-301, ADESH Training Program Plan

ADESH-AP-006, Records Management Plan

PD1020, Document Control and Records Management

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9.0 ATTACHMENTS

Attachment 1: Screenshot Examples of EPC-CP-TP-2103 R0 Form 1, *ISCO Sampler Inspection and Sample Retrieval* in MC Express

Attachment 2: EPC-CP-TP-2103 R0 Form 1, *ISCO Sampler Inspection and Sample Retrieval* Hard Copy Example

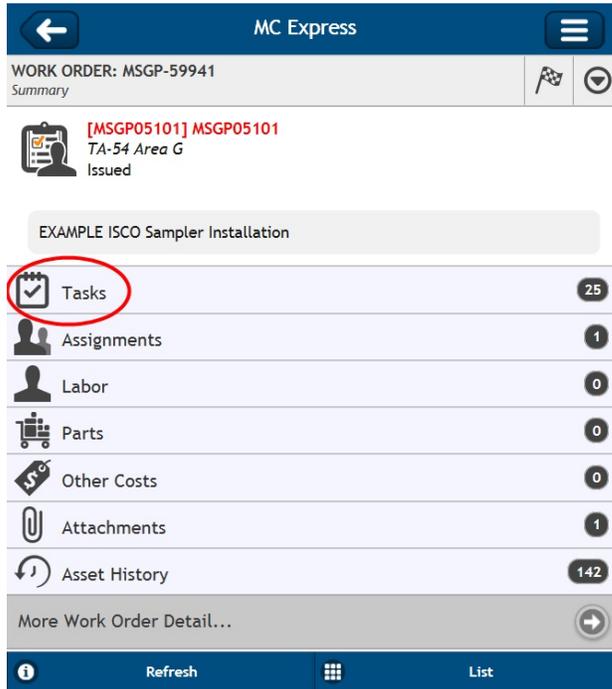
Attachment 3: Sample Retrieval Flow Diagram

| | | |
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Attachment 1: Screenshot Examples of EPC-CP-TP-2103 R0 Form 1, ISCO Sampler Inspection and Sample Retrieval in MC Express

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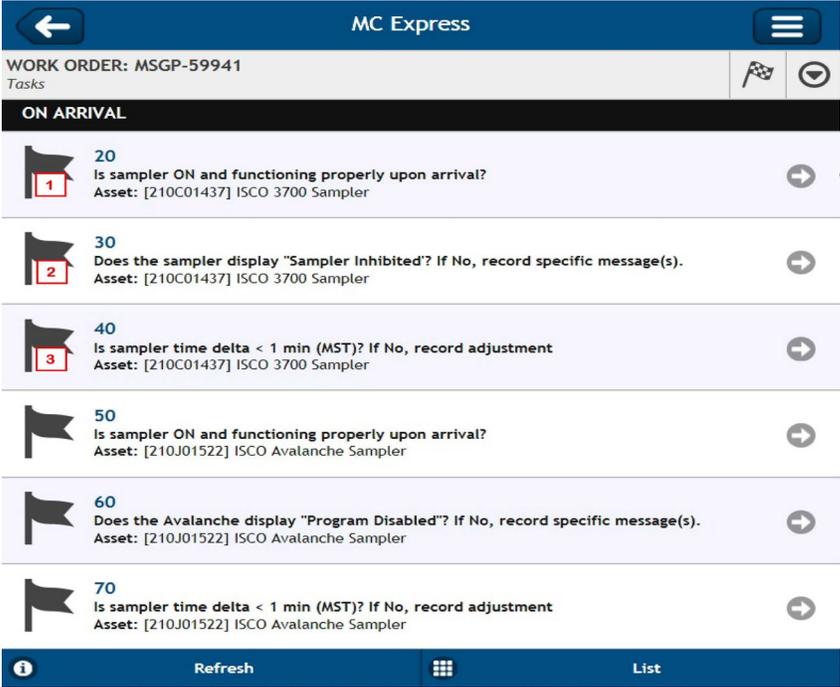
Work Order Summary Page (Section 3.1, Steps 8 and 9)



Attachment 1: Screenshot Examples of EPC-CP-TP-2103 R0 Form 1, ISCO Sampler Inspection and Sample Retrieval in MC Express (cont.)

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Work Order Tasks page - On Arrival (Section 4.1.1, Steps 2-5)

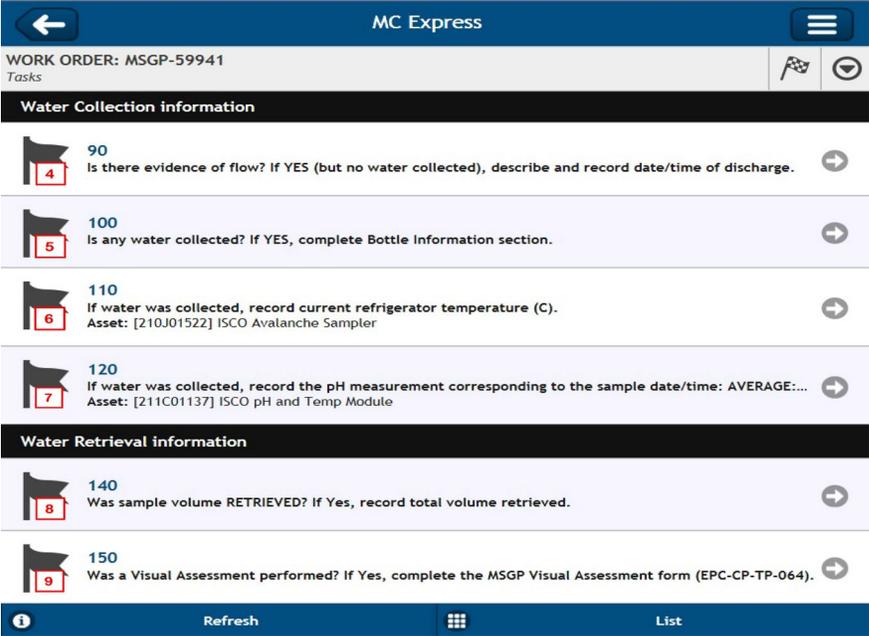


| | | |
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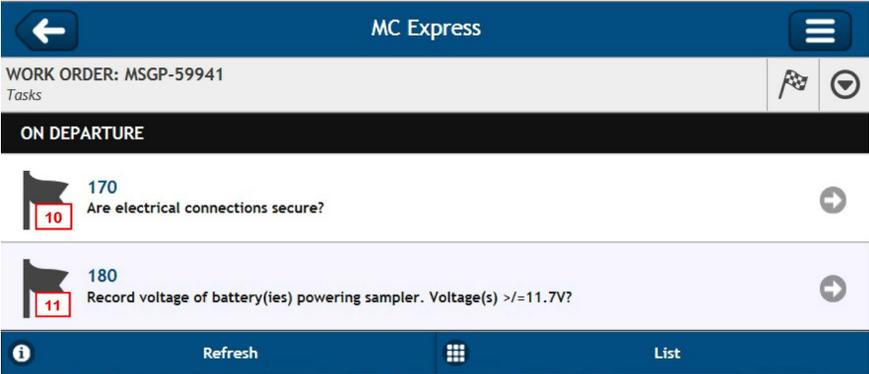
Attachment 1: Screenshot Examples of EPC-CP-TP-2103 R0 Form 1, ISCO Sampler Inspection and Sample Retrieval in MC Express (cont.)

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Work Order Task Page – Water Collection Information and Water Retrieval Information (Sections 4.1.2, Steps 3-6 and 4.1.3, Steps 1 and 2)



Work Order Task Page – On Departure (Sections 4.1.4, Steps 2 and 3)



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Attachment 1: Screenshot Examples of EPC-CP-TP-2103 R0 Form 1, ISCO Sampler Inspection and Sample Retrieval in MC Express (cont.)

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Work Order Task Page – Equipment Specific Tasks (Sections 4.1.5, Steps 1-8)

MC Express

WORK ORDER: MSGP-59941
Tasks

Equipment specific tasks

- 200** Does the sampler pass the ISCO diagnostics test?
Asset: [210C01437] ISCO 3700 Sampler
- 210** Is intake tubing free/clear of debris?
Asset: [210C01437] ISCO 3700 Sampler
- 220** Does sample tubing pass suction test?
Asset: [210C01437] ISCO 3700 Sampler
- 230** Is sampler on upon departure?
Asset: [210C01437] ISCO 3700 Sampler
- 240** Has the actuator switch been reset to "Latch"?
Asset: [210C01437] ISCO 3700 Sampler
- 250** Does ISCO display "Sampler Inhibited" on departure?
Asset: [210C01437] ISCO 3700 Sampler

Refresh List

Work Order Task Page – Maintenance Information (Sections 4.1.6, Steps 1-3)

MC Express

WORK ORDER: MSGP-59941
Tasks

Maintenance information

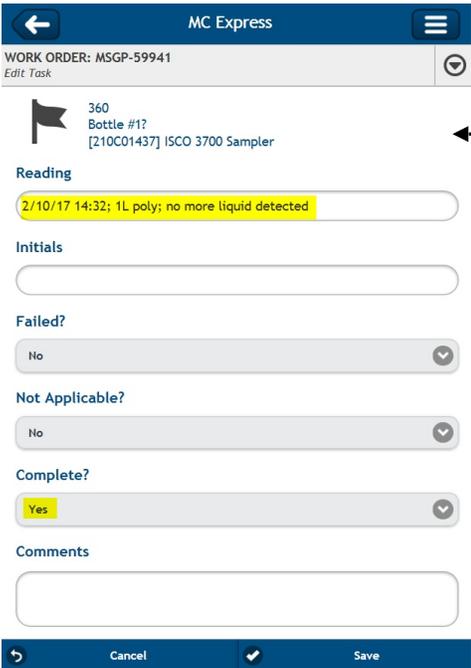
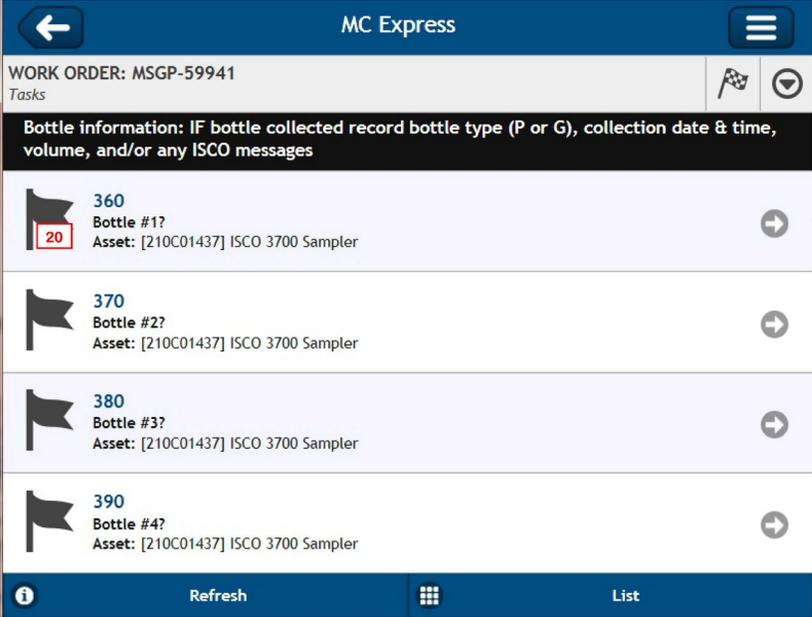
- 330** Is any maintenance not described above completed during inspection? If Yes, describe.
- 340** Is any follow-on maintenance not described above required? If Yes, describe.

Refresh List

Attachment 1: Screenshot Examples of EPC-CP-TP-2103 R0 Form 1, ISCO Sampler Inspection and Sample Retrieval in MC Express (cont.)

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Work Order Task Page – Bottle Information (Sections 4.1.7, Step 1)



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| Inspecting ISCO Stormwater Runoff Samplers & Retrieving Samples | No: EPC-CP-TP-2103 | Page 24 of 27 |
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Attachment 1: Screenshot Examples of EPC-CP-TP-2103 R0 Form 1, ISCO Sampler Inspection and Sample Retrieval in MC Express (cont.)

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Work Order Status Update Page (Section 4.4, Steps 4 and 5)

MC Express

WORK ORDER: MSGP-59941
Status Update

Issued

New Status **21**

Completed

Date

03/16/2017 12:03 PM

Percent Complete 100%

Labor Report Update **22**

Select Comments to Add.....

Jane Admin

Cancel Save

Work Order Status Update Page (Section 4.4, Step 7)

MC Express

WORK ORDER: MSGP-59941
Status Update

Signature **23**

(Remove)

Jane Admin

Cancel Save

Attachment 2: EPC-CP-TP-2103 R0 Form 1, ISCO Sampler Inspection and Sample Retrieval Hard Copy Example
(Page 1 of 2)

Los Alamos National Lab - ADESH

Work Order MSGP-59941

MSGP Monitoring Stations
Printed 8/10/2017 - 11:25 AM (Duplicate Copy)

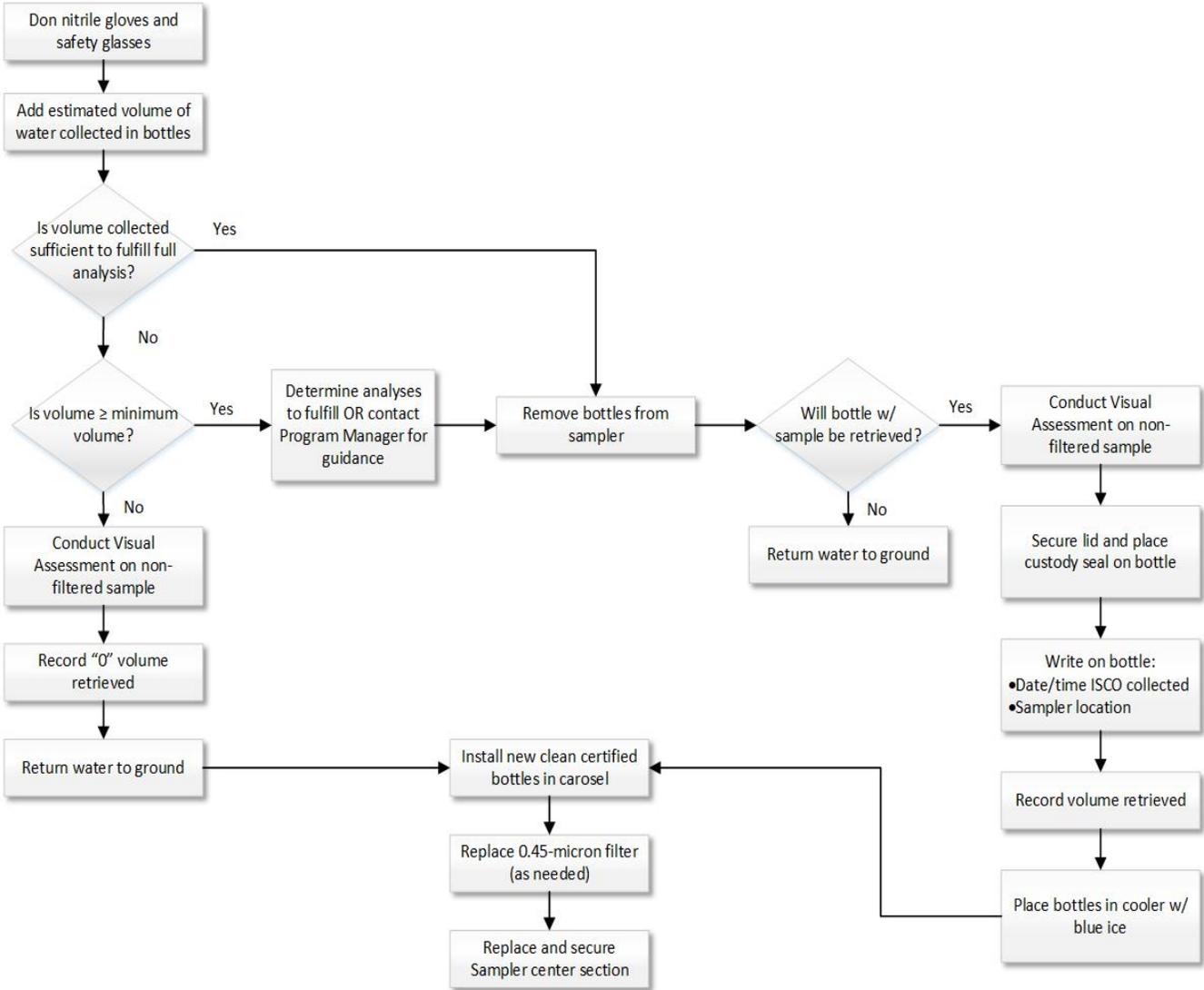
| | | |
|---|--|---|
| Maintenance Details | | |
| Requested By: Admin, Jane on 8/10/2019 11:23:00 AM | Target: 12/31/2019 | MSGP Program |
| Procedure: MSGP ISCO Sampler Inspection and Sample Retrieval (EPC-CP-TP-2103 R0 Form 1) | Priority/Type: / Inspection | RG121.9 |
| Last PM: 7/20/2019 | Department: Utilities and Infrastructure | TA-3-38 Carpenter Shop |
| Project: | | Monitored Outfall (073) |
| | | MSGP07302 |
| | | Contact: Admin, Jane Phone: 123-4567 |
| Reason: Example ISCO Sampler Inspection and Sample Retrieval | | |

| Tasks | | | | | |
|------------------------------|--|-------|--------------------------|--------------------------|--------------------------|
| # | Description | Meas. | No | N/A | Yes |
| ON ARRIVAL | | | | | |
| 1 | 20 ISCO 3700 Sampler [210C01437] Is sampler ON and functioning properly upon arrival? | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2 | 30 ISCO 3700 Sampler [210C01437] Does the sampler display "Sampler Inhibited"? If No, record specific message(s). | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3 | 40 ISCO 3700 Sampler [210C01437] Is sampler time delta < 1 min (MST)? If No, record adjustment | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| | 50 ISCO Avalanche Sampler [210J01522] Is sampler ON and functioning properly upon arrival? | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| | 60 ISCO Avalanche Sampler [210J01522] Does the Avalanche display "Program Disabled"? If No, record specific message(s). | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| | 70 ISCO Avalanche Sampler [210J01522] Is sampler time delta < 1 min (MST)? If No, record adjustment | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Water Collection information | | | | | |
| 4 | 90 Is there evidence of flow? If YES (but no water collected), describe and record date/time of discharge. | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 5 | 100 Is any water collected? If YES, complete Bottle Information section. | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 6 | 110 ISCO Avalanche Sampler [210J01522] If water was collected, record current refrigerator temperature (C). | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 7 | 120 ISCO pH and Temp Module [21 1C01137] If water was collected, record the pH measurement corresponding to the sample date/time: AVERAGE: MINIMUM: MAXIMUM: | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Water Retrieval information | | | | | |
| 8 | 140 Was sample volume RETRIEVED? If Yes, record total volume retrieved. | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 9 | 150 Was a Visual Assessment performed? If Yes, complete the MSGP Visual Assessment form (EPC-CP-QP-2105). | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| ON DEPARTURE | | | | | |
| 10 | 170 Are electrical connections secure? | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 11 | 180 Record voltage of battery(ies) powering sampler. Voltage(s) >/=11.7V? | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Equipment specific tasks | | | | | |
| 12 | 200 ISCO 3700 Sampler [210C01437] Does the sampler pass the ISCO diagnostics test? | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 13 | 210 ISCO 3700 Sampler [210C01437] Is intake tubing free/clear of debris? | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 14 | 220 ISCO 3700 Sampler [210C01437] Does sample tubing pass suction test? | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 15 | 230 ISCO 3700 Sampler [210C01437] Is sampler on upon departure? | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 16 | 240 ISCO 3700 Sampler [210C01437] Has the actuator switch been reset to "Latch"? | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 17 | 250 ISCO 3700 Sampler [210C01437] Does ISCO display "Sampler Inhibited" on departure? | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

Attachment 2: EPC-CP-TP-2103 R0 Form 1, ISCO Sampler Inspection and Sample Retrieval Hard Copy Example (cont.)
(Page 2 of 2)

| | | | | | | |
|--|---|--|---------------------------|--------------------------|--------------------------|--------------------------|
| | 260 | ISCO Avalanche Sampler [210J01522] Does the sampler pass the ISCO diagnostics test? | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| | 270 | ISCO Avalanche Sampler [210J01522] Is intake tubing free/clear of debris? | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| | 280 | ISCO Avalanche Sampler [210J01522] Does sample tubing pass suction test? | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| | 290 | ISCO Avalanche Sampler [210J01522] Is sampler on upon departure? | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| | 300 | ISCO Avalanche Sampler [210J01522] Has the actuator switch been reset to "Latch"? | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| | 310 | ISCO Avalanche Sampler [210J01522] Does Avalanche display "Program Disabled" on departure? | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Maintenance Information | | | | | | |
| 18 | 330 | Is any maintenance not described above completed during inspection? If Yes, describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 19 | 340 | Is any follow-on maintenance not described above required? If Yes, describe. | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Bottle information: IF bottle collected record bottle type (P or G), collection date & time, volume, and/or any ISCO messages | | | | | | |
| 20 | 360 | ISCO 3700 Sampler [210C01437] Bottle #1? | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| | 370 | ISCO 3700 Sampler [210C01437] Bottle #2? | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| | 380 | ISCO 3700 Sampler [210C01437] Bottle #3? | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| | 390 | ISCO 3700 Sampler [210C01437] Bottle #4? | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| | 400 | ISCO 3700 Sampler [210C01437] Bottle #5? | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| | 410 | ISCO 3700 Sampler [210C01437] Bottle #6? | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| | 420 | ISCO 3700 Sampler [210C01437] Bottle #7? | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| | 430 | ISCO 3700 Sampler [210C01437] Bottle #8? | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| | 440 | ISCO 3700 Sampler [210C01437] Bottle #9? | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| | 450 | ISCO 3700 Sampler [210C01437] Bottle #10? | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| | 460 | ISCO 3700 Sampler [210C01437] Bottle #11? | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| | 470 | ISCO 3700 Sampler [210C01437] Bottle #12? | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| | 480 | ISCO Avalanche Sampler [210J01522] Bottle #1? | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| | 490 | ISCO Avalanche Sampler [210J01522] Bottle #2? | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| | 500 | ISCO Avalanche Sampler [210J01522] Bottle #3? | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| | 510 | ISCO Avalanche Sampler [210J01522] Bottle #4? | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Labor Report | | | | | | |
| 21 | Completed: 5/30/2019 4:44:00 PM | | | | | |
| 22 | Report: Jane Admin | | | | | |
| 23 |  Signature / Name | 5/30/2019 Date | _____ Signature / Name | _____ Date | | |
| I confirm the information as recorded is true, accurate and complete. | | | | | | |

Attachment 3: Sample Retrieval Flow Diagram
(Page 1 of 1)



**ATTACHMENT 20: EPC-CP-QP-2106, PROCESSING MSGP STORMWATER
SAMPLES**

EPC-CP-QP-2106

Revision: 1



Effective Date: 11/28/2022

Next Review Date: 11/28/2025

Environment, Safety, Health, Quality, Safeguards, and Security Directorate
Environment Protection and Compliance – Compliance Programs Group
Quality Procedure

Processing MSGP Stormwater Samples

Hazard Grading: [X] Low [] Moderate [] High/Complex
Usage Level: [X] Reference [] UET [] Mixed: UET Sections: _____
Status: [] New [X] Major Revision [] Minor Revision
[] Review w/No Changes [] Other: _____
Safety Basis: [X] N/A [] USQ [] USI Number: _____

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REVISION HISTORY

| Document Number and Revision | Effective Date | Description of Changes |
|-------------------------------------|-----------------------|--|
| ENV-RCRA-QP-048, Rev. 0 | 07/2011 | New document |
| ENV-CP-QP-048, Rev. 1 | 09/2013 | Annual Review and Revision, new format, process change, and new organization name. |
| EPC-CP-QP-048, Rev. 2 | 06/05/2017 | Review and Revision, new format, and new organization name, clarified steps, updated attachments. |
| EPC-CP-QP-048 R3 | 10/05/2017 | Updated Sample Collection Log instructions, added a step describing evidence of flow, and added section for addressing excess stormwater material. |
| EPC-CP-QP-048 R4 | 01/31/2019 | Sample Collection Log form and associated text updated. Added text for collecting quality control samples. |
| EPC-CP-QP-2106 R0 | 10/18/2019 | Supersedes EPC-CP-QP-048 R4. New EPC-CP procedure format and numbering system. Minor editorial updates. |
| EPC-CP-QP-2106 R1 | 11/28/2022 | Supersedes EPC-CP-QP-2106 R0. Review and revise to update to the 2021 MSGP. |

| | | |
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1.0 INTRODUCTION

Triad National Security LLC, the operator for Los Alamos National Laboratory (LANL or the Laboratory), conducts stormwater monitoring activities pursuant to the National Pollutant Discharge Elimination System (NPDES), Multi-Sector General Permit (MSGP). As part of this monitoring, Environmental Protection and Compliance, Compliance Programs (EPC-CP) personnel collect stormwater discharge samples from discharge points at industrial sites and prepare them for analysis.

1.1 Purpose

This procedure describes the process for filtering, preserving and preparing stormwater samples for shipment to an analytical laboratory from locations where EPC-CP conducts stormwater monitoring activities required pursuant to the NPDES MSGP. This procedure may also be used for other Associate Laboratory Directorate for Environment, Safety, Health, Quality, Safeguards, and Security (ALDESHQSS) stormwater monitoring activities as needed.

1.2 Scope

Stormwater samples are collected in the field with either a refrigerated Avalanche® or ISCO 3700 automated sampler, single stage sampler, or by hand. When in-line filtration is not possible, sample filtration, along with chemical preservation (as required) is conducted immediately following sample retrieval in the field or in the EPC-CP Stormwater Laboratory (TA-59-0001).

Sample collection, submission, and analysis is conducted using Environmental Protection Agency (EPA) and New Mexico Water Quality Control Commission guidelines. MSGP monitoring samples are collected and analyzed according to test procedures approved under Title 40 of the Code of Federal Regulations Part 136 unless other test procedures have been specified in the MSGP. Quantitation limits associated with these test procedures are sufficiently sensitive to meet MSGP limits.

1.3 Applicability

This procedure applies to EPC-CP technical staff and subcontractor personnel (as applicable) who conduct processing and chemical preservation of stormwater samples either in the EPC-CP Stormwater Laboratory or in the field.

The MSGP Program Lead is the primary person responsible for this procedure. EPC-CP personnel are appointed responsibility for a subset of sampling stations. Other stormwater monitoring programs or projects utilizing this procedure will refer to program or project specific roles and responsibilities.

2.0 PRECAUTIONS AND LIMITATIONS

The hazard level for the activities in this procedure is **LOW**. An Integrated Work Document Part II (2101 Form) will address any site-specific requirements and training for Facility Operations Divisions (FOD) if required by the FOD.

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Use only sample containers that are documented to meet or exceed “US EPA Specification and Guidance for Contaminant-Free Sample Containers” (Publication 9240.05A, EPA/540/R-93/051, December 1992). Never clean or re-use sample containers. Keep containers in a clean, dry place until a sample is ready for processing and transfer to the appropriate container(s).

3.0 PREREQUISITE ACTIONS

3.1 Planning and Coordination

Refer to the most current revision of the MSGP or program/project specific Sampling and Analysis Plan (SAP) to determine the need for collecting quality control samples. Collect the types and quantities of quality control samples at the locations specified.

Schedule and complete stormwater processing to meet the analytical holding time requirements identified in the MSGP SAP or as requested by the MSGP Program Lead. Other stormwater monitoring programs or projects utilizing this procedure will refer to their program or project specific SAP.

The MSGP Data Manager will generate Water Sample Collection and Processing Log/Field Chain of Custody (SCPL) form(s) at the beginning of the MSGP monitoring year and/or the beginning of each MSGP monitoring quarter from the Environmental Information Management (EIM) database. If the MSGP Data Manager is not available, forms will be obtained from the EPC-CP Sample Management Office (SMO). The SMO will generate Chain of Custody/Analysis Request form(s) as samples are submitted for shipment to an analytical laboratory.

3.2 Performance Documents

Personnel performing this procedure will be familiar with the most current versions of the following documents if the equipment or chemicals are utilized.

- EPC-CP MSGP SAP for the current monitoring year
- Peristaltic Pump User Manual (e.g., GeoTech®)
- pH meter and probe user manual (e.g., HACH sensION® + Portable Meter, HACH 50 50 T® probe)
- Material Safety Data Sheet or Safety Data Sheet for preservation chemicals

3.3 Special Tools, Equipment, Parts and Supplies

Ensure the following equipment is available:

- Safety glasses with side shields
- Nitrile gloves
- Lab coat
- Eyewash in Stormwater Lab (or portable eyewash in the field)

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- Water SCPL form
- EPC-CP MSGP SAP most recent revision for the current monitoring year OR project specific monitoring plan
- Sample containers (glass and poly bottles)
- Sample container lids
- pH meter and probe
- Acid and base preservatives
- Clean silicon (e.g., Tygon) tubing
- Portable peristaltic pump (e.g., Geopump or equivalent)
- 0.45 micron (μm) and/or 0.10 μm cartridge filters (where applicable)
- Deionized water (where applicable)
- Paper towels
- Coolers with ice, Blue Ice[®], or equivalent
- Ball point pen
- Permanent marker
- Chain-of-custody seals/tape
- Copy of this procedure
- Cell phone (only government cell phones are allowed in secure areas) (See <https://int.lanl.gov/policy/documents/P217.pdf> for requirements for using portable electronic devices on Laboratory property).

3.4 Equipment Calibration

Some analyses specified in the program or project SAP require recording field parameters such as pH. If a pH meter and probe are used, the equipment will be calibrated once before each use. Follow the instructions in the equipment manufacturer's manual to perform a three-point calibration with certified pH buffers 4.00, 7.00, and 10.00. Record the calibration results in a dedicated calibration notebook or on EPC-CP-QP-2106 R1 Form 1, *MSGP pH Probe Calibration Log* (see Attachment 1).

4.0 PROCESSING SAMPLES

In this procedure, sample collection bottles are the bottles in which the sample was collected in the field. Sample containers are containers into which the original sample is transferred (as necessary) during processing and shipped to the analytical laboratory.

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NOTE: Prior to performing any of the steps in the following sub-sections, ensure that you are wearing the proper clothing. Don nitrile gloves, safety glasses with side shields, and a lab coat. Confirm that the eyewash station is operational prior to processing samples.

4.1 Preparation for Processing Samples

Sample Retriever

- [1] Arrange sample collection bottles on the workbench in order by MSGP sampling location, ensuring to distinguish bottles collected via in-line filtration from non-filtered bottles, where applicable.

CAUTION

Process only one sample set (i.e., samples listed on one SCPL form or samples from one location) at a time to ensure stormwater from different locations is not co-mingled.

- [2] Cross-check the Location ID (e.g., MSGP00201) on the sample bottles with the LOCATION ID on the SCPL form (see example in Attachment 2).
- [3] Ensure the pre-populated information on the SCPL form is correct. Document any changes [e.g., change FIELD MATRIX code from rain (WT) to snowmelt (WM)].
- [4] Write the following information on the SCPL.
 - [a] Sampler Inspection and Sample Retrieval form (refer to EPC-CP-TP-2103) identification number (e.g., Work Order: MSGP-xxxx);
 - [b] Date/time the sample was collected in the field (e.g., date/time automated sampler filled the sample bottles or a grab sample was taken);
 - [c] Date/time the sample was retrieved from the field;
 - [d] “Not Applicable” (N/A) in the LOCATION SYNONYM(S) field unless the information is required by the SAP;
 - [e] N/A in the PRIORITY box if box is not pre-populated;
 - [f] Any pertinent information regarding sample collection and/or retrieval in the SAMPLE COMMENTS field (e.g., grab sample collected by hand, recent erosion observed up-gradient of sampler) or N/A;
 - [g] N/A for FIELD PARAMETER Sample Time (this is documented at the top of the form as COLLECTION TIME);
 - [h] pH measurement taken at the time the sample was collected in the field OR time sample was received at the EPC-CP Stormwater Laboratory (if applicable) or N/A;
 - [i] Indicate if a visual assessment was performed.

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- IF a visual assessment **WAS NOT** performed, THEN write N or No in the Visual Inspection space.
- IF a visual assessment **WAS** performed, THEN write Y or Yes in the Visual Inspection space and the identification number from the MSGP Visual Assessment form (refer to EPC-CP-QP-2105) (e.g., MSGP-xxxx).

[j] The printed name and signature of the person who retrieved the sample in the COLLECTED BY box and date/time the sample was retrieved from the field.

[5] IF the person who retrieved the sample is processing, THEN write N/A in the first RELINQUISHED BY and RECEIVED BY boxes.

[6] IF the person who retrieved the sample is NOT processing, THEN

[a] He/she will print and sign his/her name and the date/time samples are relinquished to the processor in the RELINQUISHED BY box.

[b] The processor will print and sign his/her name and the date/time samples are received in the first RECEIVED BY box.

Sample Processor

[7] Ensure the following information is correct for the analysis requested on the SCPL.

[a] Sample container volume and type [e.g., 500 milliliter (mL) POLY].

[b] Preservation type (e.g., ICE).

[c] Note any deviation from the planned sample container volume, type, or preservation on the SCPL.

[8] Determine which samples require filtration and chemical preservation as requested on the SCPL.

[a] Match each sample container with the SCPL(s) on the workbench.

NOTE 2: Requirements are also identified in the most current SAP revision.

[9] For split samples, follow these steps:

[a] Turn the sample collection bottle upside down multiple times to ensure sediment is loose from the bottom of the bottle.

[b] Pour sample into sample containers ensuring the sample remains homogenized throughout the transfer.

[10] Refer to Section 4.2 Filtering Samples, Section 4.3 Preserving Unfiltered and Filtered Samples, and Section 4.4 Quality Control Samples as needed.

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- [11] Indicate if each sample on the SCL was collected by writing Y for Yes or N for No in the COLLECTED Y/N box.
- [12] IF the SPECIAL INSTRUCTIONS box is not pre-populated, THEN write N/A in the box.
- [13] Document any other deviations from the planned sample processing on the SCPL (e.g., turbid sample required extra filtration step, used standard deionized water in lieu of ultrapure water for field blank) under PROCESSING COMMENTS or SAMPLING COMMENTS,
OR write N/A.
- [14] IF no further processing is required (e.g., chemical preservation), THEN apply a chain-of-custody seal/tape around the bottle and lid and sign and date the seal/tape.
- [15] The person processing the sample will print and sign his/her name and indicate the date/time samples were processed in the PROCESSED BY box.
- [16] Proceed to Section 4.5.

4.2 Filtering Samples

Filter samples if specified on the SCPL or if an in-line filter was not used during sample collection.

- [1] Select the appropriate-sized cartridge filter (e.g., 0.10µm or 0.45µm).
- [2] Set up the filter assembly.
 - [a] Attach an appropriate amount of silicone tubing to both ends of the cartridge filter.
 - [b] Place the filter upstream of the peristaltic pump to prevent over-pressurization.
 - [c] IF the sample contains a significant amount of sediment, THEN a pre-filter of the same size or larger micron capacity may be used.
- [3] For split filtered samples, follow these steps:
 - [a] Move the intake tube up and down through the sample during filtration.
NOTE 1: A sample collected solely for filtration can be filtered without being homogenized by gently shaking.
- [4] Replace the filter if any of the following conditions occur:
 - flow diminishes,
 - the pump begins to make a grinding sound, or
 - the tubing is forced off the filter by backpressure.

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- [5] Place the lid on the container.
 - [a] Ensure the lid is securely affixed to the container.
 - [b] Add a check mark next to the filtered requirement previously marked on the lid to indicate that filtration has been completed.
 - [c] Clean and dry the exterior of sample container.
 - [d] Check sample container for leakage and breakage.
- [6] Remove and dispose of filter and tubing when filtration of one sample set (location) has been completed.

NOTE 2: A new filter must be used with each new sample set.

- [7] Return to Section 4.1, Step 11.

4.3 Preserving Unfiltered and Filtered Samples

Preservation entails the addition of acid or base to a sample. Acids currently used include hydrochloric acid (HCl), nitric acid (HNO₃), and sulfuric acid (H₂SO₄). Bases currently used in preservation include sodium hydroxide (NaOH). Review the appropriate Material Safety Data Sheet or Safety Data Sheet for specific guidelines prior to preserving samples. Specific acids/bases used depend on the required monitored parameters and are subject to change (e.g., biennial Clean Water Act §303(d)/305(b) Integrated Report updates).

WARNING

Preservatives are strong acids and bases that can cause severe burns. Take extreme care when using these acids and bases.

- [1] Review the analysis requested on the SCPL or SAP.
 - [2] Select the pre-measured preservative type and size that matches the sample container size.
 - [a] IF you only have one size pre-measured preservative that does not match the sample container size, THEN you will use more than one. For example, if you have a 1-liter sample container and 500 mL pre-measured preservative vial, you will need to add two preservative vials to the sample container.
- NOTE:** Never "split" a larger volume pre-measured vial to preserve a smaller volume container (e.g., do not pipette from a 1-liter, pre-measured preservative vial to preserve a 500 mL sample). Error in measurement precision may lead to a risk of violating Department of Transportation shipping requirements.
- [3] Add the preservative (acid or base) to the sample.
 - [a] Securely affix the lid to the container.

| | | |
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- [b] Agitate the preserved sample by turning the container upside down two to three times.
- [4] Add a check mark next to the preservation type previously marked on the lid to indicate that preservation has been completed.
 - [a] Clean and dry the exterior of sample container.
 - [b] Check sample container for leakage and breakage.
- [5] Return to Section 4.1, Step 11.

4.4 Quality Control Samples

Refer to the SCPL or the program specific SAP for the types and quantities of quality control samples and the locations where these samples will be collected.

4.4.1 Field Blank Samples

- [1] Review the analysis requested on the SCPL or SAP.
 - [a] Ensure the sample container volume, type, and preservation type is correct for the analysis requested (e.g., 500 mL POLY, HNO₃).
 - [b] Note any deviation from the planned sample container volume or type on the SCPL.

CAUTION

DO NOT use tap, distilled, or drinking water purchased from a local store. These sources may not meet the water quality standards specified in the New Mexico Administrative Code (Title 20, Chapter 6, Part 4).

- [2] Obtain analyte free water (e.g., High Performance Liquid Chromatography grade ultrapure in amber glass sealed bottles) or water from the TA-59-0001 deionized water system in sufficient quantity to fulfill the analysis requested.
- [3] Select another empty sample container(s) of the same type and volume for the analysis requested.
- [4] Mark the bottle and container lids with the 3-digit outfall ID and "Field Blank".
- [5] Transport both the field blank bottle(s) and container(s) to the sampling location.
- [6] During retrieval of samples, open the field blank bottle(s) and pour the analyte free water into the field blank sample container(s).
- [7] Securely affix the lid(s) to the container(s).
- [8] Replace the lid on the analyte free water bottle.

| | | |
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- [a] IF 500 mL or greater remain in the bottle, THEN replace lid and mark the bottle with the date it was opened and “For Decon Use Only”.
- [b] IF less than 500 mL remain in the bottle, THEN dispose of water in the EPC-CP Stormwater Laboratory sink and dispose of the bottle.
- [9] Return the field blank containers with retrieved samples to the EPC-CP Stormwater Laboratory (TA-59-0001) for any further required processing.
- [10] Return to Section 4.1, Step 11 to complete sample processing.

4.4.2 Field Duplicate Samples

- [1] Review the analysis requested on the SCPL or SAP.
 - [a] Ensure the sample container volume, type, and preservation type is correct for the analysis requested (e.g., 500 mL POLY, HNO₃).
 - [b] Note any deviation from the planned sample container volume, type, or preservation on the SCPL.
- [2] Field duplicate samples must be samples collected from the same location, at the same time, and in the same manner:
 - Select two sample collection bottles next to each other in the automated sampler carousel.

OR

 - Select one sample collection bottle to split into separate sample containers
- [3] For split samples, follow these steps:
 - [a] Turn the sample collection bottle upside down multiple times to ensure sediment is loose from the bottom of the bottle.
 - [b] Pour sample into sample containers ensuring the sample remains homogenized throughout the transfer.
- [4] Return to Section 4.1, Step 11 to complete sample processing.

4.5 Handling Excess Stormwater

Minimize the amount of stormwater sample brought into the EPC-CP Stormwater Laboratory. Field personnel will attempt to retrieve only the volumes needed to fulfill the requested analyses from the current MSGP SAP or program/project specific SAP.

| | | |
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Sample Processor

- [1] IF any excess stormwater sample exists after processing has been completed,
THEN
- Return to site of origin
- OR
- Select one sample collection Form.

4.6 Submit Samples for Shipping to Offsite Analytical Laboratory

Sample Processor

- [1] Ensure the sample containers are securely sealed and wiped dry.
- [2] Compare the information from the SCPL and lid of each container and apply the correct labels to the sample containers. Refer to Attachment 2 for an example of sample container labels.
- [3] Write the date and time the sample was collected on each label.
- [4] IF the person who processed the sample is NOT submitting the samples to the SMO,
THEN
- [a] He/she will print and sign his/her name and the date/time samples are relinquished to the submitter in the second RELINQUISHED BY box.
- [b] The submitter will print and sign his/her name and the date/time samples are received in the second RECEIVED BY box.

EPC-CP technical staff

- [5] Transport samples from the EPC-CP Stormwater Laboratory (TA-59-0001) to the SMO (TA-59-0001).
- [a] Deliver samples during SMO business hours by 2pm for same day shipping.
- [b] Coordinate with the SMO for delivery during other times or for delivery of samples that have limited holding times.
- [c] If delivery of samples to the SMO will be delayed, place sample containers with SCPL(s) in the EPC-CP Stormwater Laboratory refrigerator and ensure EPC-CP Stormwater Laboratory door is locked.
- [6] Complete the SCPL form as follows:
- [a] Ensure all fields are filled out with sample information or N/A. Do not leave blank fields.
- [b] In the RELINQUISHED BY box, the person submitting the sample(s) will sign and print his/her name.

| | | |
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- [7] [c] The SMO personnel accepts the sample(s) by signing and printing his/her name and recording the date/time in the RECEIVED BY box. Ensure the following steps are taken:
 - [a] SMO keeps the original SCPL(s) to accompany the samples.
 - [b] Keep a copy of the signed SCPL(s) for the MSGP Program.
- [8] Deliver the copy of the signed SCPL(s) to the MSGP Data Manager.

MSGP Data Manager

- [9] Process the sample information in the EIM system.
 - [a] Capture any documented deviations from planned conditions (as noted on the SCPLs).

5.0 TRAINING

All EPC-CP personnel that execute the activities specified in this procedure must meet the minimum qualification and training requirements for their position as identified in EPC-CP-PIP-2101, NPDES Multi-Sector General Permit Program. This will include “self-study” (required reading) for this procedure as assigned and documented in accordance with ADESH-TPP-301, *ADESH Training Program Plan*. Other participating LANL groups may require training documentation pursuant to local procedures.

Contract personnel that execute the activities specified in this procedure will be qualified and trained as required by the Exhibit D and Exhibit F. In addition, contract personnel will be required to complete “self-study” (required reading) of this procedure. All training must be assigned and tracked using the Laboratory training management system, UTrain.

6.0 RECORDS

EPC-CP is the Office of Record for this document, that must be maintained in accordance with [P1020-1](#), *Laboratory Records Management* and ESH-AP-006, *Records Management Plan*. Records generated by this document will be submitted to the Records Management designated point of contact or document manager for document management.

Below are records generated as a result of implementing this procedure identified by title and type.

| Record Title | QA Record | Non-QA Record |
|---|-------------------------------------|--------------------------|
| EPC-CP-QP-2106 R1 Form 1, <i>MSGP pH Probe Calibration Log</i> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| *Water Sample Collection and Processing Log/Field Chain of Custody | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Copy of logbook entry(s) (if a logbook is used) | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Other pertinent field or lab notes (if additional notes are required) | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

*The original document is part of the data package QA records for the SMO. MSGP retains a copy for tracking purposes only.

| | | |
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7.0 DEFINITIONS AND ACRONYMS

7.1 Definitions

See LANL [Definition of Terms](#).

7.2 Acronyms

See LANL [Acronym Master List](#).

| | |
|--------|---|
| EIM | Environmental Information Management |
| EPA | Environmental Protection Agency |
| EPC-CP | Environmental Protection and Compliance – Compliance Programs |
| FOD | Facility Operations Director |
| LANL | Los Alamos National Laboratory |
| µm | Micron |
| mL | Milliliter |
| MSGP | Multi-Sector General Permit |
| N/A | Not Applicable |
| NPDES | National Pollutant Discharge Elimination System |
| pH | Potential of Hydrogen |
| SAP | Sample Analysis Plan |
| SCPL | Water Sample Collection and Processing Log/Field Chain of Custody |
| SMO | Sample Management Office |

8.0 REFERENCES

Code of Federal Regulation Title 40 Part 136, *Guidelines Establishing Test Procedures for the Analysis of Pollutants*

ESH-AP-006, *Records Management Plan*

P1020-1, *Laboratory Records Management*

P217, *Controlled Portable Electronics Devices*

New Mexico Administrative Code Title 20, Chapter 6, Part 4, *Standards for Interstate and Intrastate Surface Waters*.

US EPA Publication 9240.05A, EPA/540/R-93/051, *Specification and Guidance for Contaminant-Free Sample Containers*, December 1992

| | | |
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9.0 ATTACHMENTS

Attachment 1: EPC-CP-QP-2106 R1 Form 1, *MSGP pH Probe Calibration Log*

Attachment 2: Water Sample Collection and Processing Log/Field Chain of Custody Example

Attachment 3: Sample Container Labels Example

Attachment 1: EPC-CP-QP-2106 R1 Form 1, MSGP pH Probe Calibration Log
(Page 1 of 1)

MSGP pH Probe Calibration Log
(Method: SM 4500-H+ B-2011 and Instrument User Manual)

Date: _____ Time: _____ pH Probe #: _____

Location: _____ Analyst : _____

| Calibration Certified Buffers Used (units = S.U.) | pH Probe Stabilization Reading (S.U.)* |
|---|--|
| <input type="checkbox"/> 4.00 Expiration Date: _____ | _____ |
| <input type="checkbox"/> 7.00 Expiration Date: _____ | _____ |
| <input type="checkbox"/> 10.00 Expiration Date: _____ | _____ |

*Reading must be within +/- 0.50 S.U. for valid calibration. If unachievable, explain:

Date: _____ Time: _____ pH Probe #: _____

Location: _____ Analyst : _____

| Calibration Certified Buffers Used (units = S.U.) | pH Probe Stabilization Reading (S.U.)* |
|---|--|
| <input type="checkbox"/> 4.00 Expiration Date: _____ | _____ |
| <input type="checkbox"/> 7.00 Expiration Date: _____ | _____ |
| <input type="checkbox"/> 10.00 Expiration Date: _____ | _____ |

*Reading must be within +/- 0.50 S.U. for valid calibration. If unachievable, explain:

Date: _____ Time: _____ pH Probe #: _____

Location: _____ Analyst : _____

| Calibration Certified Buffers Used (units = S.U.) | pH Probe Stabilization Reading (S.U.)* |
|---|--|
| <input type="checkbox"/> 4.00 Expiration Date: _____ | _____ |
| <input type="checkbox"/> 7.00 Expiration Date: _____ | _____ |
| <input type="checkbox"/> 10.00 Expiration Date: _____ | _____ |

*Reading must be within +/- 0.50 S.U. for valid calibration. If unachievable, explain:

Attachment 3: Sample Container Labels Example

(Page 1 of 1)

| Los Alamos National Laboratory | |
|--------------------------------------|--------|
| Sample ID: MSGP-17-131786 | |
| Container: 500 ML POLY | 1 of 1 |
| Preservative: HNO3 ICE | |
| Analysis: NPDES-AI-Total Recoverable | |
| Date/ | Time: |

| Los Alamos National Laboratory | |
|--------------------------------------|--------|
| Sample ID: MSGP-17-131787 | |
| Container: 500 ML POLY | 1 of 1 |
| Preservative: HNO3 ICE | |
| Analysis: NPDES-AI-Total Recoverable | |
| Date/ | Time: |

EXAMPLE

**ATTACHMENT 21: EPC-CP-QP-0903, ENVIRONMENTAL REPORTING
REQUIREMENTS FOR RELEASES OR EVENTS**

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|----------------------------|------------------------------|---|
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| Effective Date: 03/09/2022 | Next Review Date: 03/09/2025 | |

Environment, Safety, Health, Quality, Safeguards, and Security Directorate
Environmental Protection and Compliance – Compliance Programs Group
Quality Procedure

Environmental Reporting Requirements for Releases or Events

Hazard Grading: Low Moderate High/Complex

Usage Level: Reference UET Mixed: UET Sections: _____

Status: New Major Revision Minor Revision

Review w/No Changes Other: _____

Safety Basis: N/A USQ USI Number: _____

Document Author/Subject Matter Expert:

| | | | |
|---------------|---------------|-------------------|------------|
| Name: | Organization: | Signature: | Date: |
| Steve Pearson | EPC-CP | Signature on File | 02-28-2022 |

Derivative Classifier: **Unclassified** or _____

| | | | |
|--------------|---------------|-------------------|------------|
| Name: | Organization: | Signature: | Date: |
| Steve Wolfel | EPC-CP | Signature on File | 03-02-2022 |

Approval Signatures:

| | | | |
|---------------------------------|---------------|-------------------|------------|
| EPC-WMP Reviewer: | Organization: | Signature: | Date: |
| Patrick L. Padilla, Team Leader | EPC-WMP | Signature on File | 03-09-2022 |
| EPC-CP RLM: | Organization: | Signature: | Date: |
| Steven L. Story, Group Leader | EPC-CP | Signature on File | 03-09-2022 |

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REVISION HISTORY

| Document Number and Revision <i>[Include revision number, beginning with Revision 0]</i> | Effective Date <i>[Document Control Coordinator inserts effective date]</i> | Description of Changes <i>[List specific changes made since the previous revision]</i> |
|--|---|---|
| 0 | 02/09 | New document |
| 1 | 4/10 | Revision and update |
| ENV-DO-QP-101 R2 | 6/12 | Biennial Review/Revision, new template implemented. |
| EPC-DO-QP-101 R3 | 08/07/17 | Revision and update. This document replaces ENV-DO-QP-101 R2. New document number reflects organizational name change. |
| EPC-CP-QP-0903 R0 | 08/10/2021 | This document replaces EPC-DO-QP-101, R3. This update includes updating appropriate sections to reflect regulations and organizational changes. Implements new EPC-CP template and document number. |
| EPC-CP-QP-0903 R1 | 03/09/2022 | This update includes clarification regarding 20.6.2.1203 NMAC reporting and conditions necessary for reporting of unplanned releases of potable water and steam condensate (Section 4.5.3). This revision supersedes EPC-CP-QP-0903 R0. |

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1.0 INTRODUCTION

This Environmental Protection and Compliance – Compliance Programs (EPC-CP) procedure describes how to determine whether an unplanned release, spill, fire, or other event needs to be reported under environmental regulations and how to fulfill all immediate reporting requirements (within the first 24 hours). Emergency and abnormal event notification requirements for reporting to Laboratory and DOE management are specified in [PD1200](#), *Emergency Management Program*, and [P322-3](#), *Performance Improvement from Abnormal Events*. Environmental reporting requirements regarding releases or other events are included in this procedure.

1.1 Purpose

This procedure describes the actions that must be performed within the first 24-hours of the release. This procedure does **not** cover the response procedures for “continuous releases” under Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) and Emergency Planning and Community Right-to-Know Act (EPCRA) (see definitions) nor the follow-up notifications and reports.

1.2 Scope

This procedure describes the separate environmental pathway processes that determine if a release or event at Los Alamos National Laboratory (LANL or the Laboratory) is reportable.

1.3 Applicability

This procedure applies to EPC-DO on-call representatives and subject matter experts (SMEs) who must respond to any release, spill, or event at the Laboratory that may require immediate notification to local, state or federal regulatory agencies.

2.0 PRECAUTIONS AND LIMITATIONS

The work described in this procedure includes fieldwork that does not require an Integrated Work Document (IWD), has a **LOW hazard** rating and has been analyzed by an SME, the EPC-CP group leader and the responsible line manager (RLM), and is consistent with LANL [P300](#), *Integrated Work Management* (IWM).

Actions specified within this procedure, unless preceded with “should” or “may,” are to be considered mandatory (i.e., “shall”, “will”, “must”).

3.0 PREREQUISITE ACTIONS

None.

3.1 Planning and Coordination

Events covered by this procedure include detonation or burns of unstable material, leaking or compromised gas cylinders, puncturing of bulging containers, fires, explosions, chemical or

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radiological spills, wastewater spills, potable water discharges, and other unplanned releases at the Laboratory.

On a quarterly basis, EPC-CP will prepare a list of individuals designated as on-call representatives and will designate the week each will be on-call. This list will be distributed to on-call representatives and Laboratory managers including Deputy Directorate for Operations (DDOPS), Associate Directorate for Environment, Safety, and Health, Quality, Safeguards & Security (ESHQSS), Emergency Operations Center (EOC), Environmental Protection and Compliance Division – Compliance Programs Group (EPC-CP), and the Environmental Stewardship Group (EPC-ES).

Note: the on-call list should also be available on the LANL internal website. Environmental Home page, Environmental Contacts – On-Call Schedule. The on-call representative can be reached by pager at 505-664-7722.

3.2 Collaboration with other Subject Matter Experts (SMEs)

If needed, coordinating with other on-call SMEs and the EOC to ensure the required notifications for environmental reporting and abnormal events are being addressed for the Laboratory.

4.0 PROCESS DESCRIPTION

4.1 Reporting Releases to Pueblo Environment Departments

The Memorandum of Agreement between the U.S. Department of Energy through the Los Alamos Field Office of the National Nuclear Security Administration (NNSA), the Office of Environmental Management (EM), and the Pueblo de San Ildefonso strengthens the existing relationship between the parties as evidenced in the Restatement of 2005 Accord (MOA). It provides the foundation and framework for the parties to address and resolve specific issues of mutual concern. This MOA requires both DOE field offices (NNSA and EM) and its contractors to follow the protocols between the parties.

The Cooperative Agreements between the Pueblos of Cochiti, Jemez, and Santa Clara and the Los Alamos National Laboratory establish trust relationships with the Pueblos to resolve issues of mutual concern. To the extent funding is available and as otherwise agreed to in writing by Triad and the Pueblos, Triad will provide in-kind technical assistance to the Pueblos in areas of economic development, education, cultural resources, the environment, and emergency preparedness and response.

In the event of a release that impacts or may potentially impact Pueblo lands, notification to the impacted Pueblo Environment Department will be coordinated through the Laboratory’s Tribal Liaison (505-629-2198) who will contact and notify the Department of Energy (DOE) Los Alamos Field Office (NA-LA) Intergovernmental Specialist to notify the Pueblos pursuant to protocols. If the release is identified to be an emergency where activation of the EOC is necessary, the LANL Emergency Response Organization will be responsible for contacting the affected Pueblos in accordance with [PD1200](#), *Emergency Management Program*.

A list of Pueblo contacts is kept at the Laboratory’s Tribal Liaison’s office.

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4.2 Responsibility of On-Call Representatives

The EPC on-call representative is the party primarily responsible for:

- 1) Responding to any notifications received on the Spills/Unplanned Release pager.
- 2) Determining if the incident will require immediate notification to external agencies in accordance with LANL, state, and federal regulatory reporting requirements.
- 3) Notifying EPC Division management of immediate reporting requirements.
- 4) In the event that the release is a non-emergency and Pueblo lands are impacted, notification to the impacted Pueblo Environment Department will be coordinated through the Laboratory's Tribal Liaison (505-629-2198) who will contact and notify the Department of Energy (DOE) Los Alamos Field Office (NA-LA) Intergovernmental Specialist to notify the Pueblos and the Office of Environmental Management if necessary.

The EPC on-call representative is not responsible for the following and EOC will make these determinations:

- 1) If the Resource Conservation Recovery Act (RCRA) Contingency Plan must be implemented.
- 2) If a shock-sensitive material, leaking, or compromised gas cylinder constitutes an emergency.
- 3) If the release is associated with an emergency where activation of the EOC is necessary, and if so, contacting the affected Pueblos in accordance with [PD1200](#), *Emergency Management Program*.

However, in order to ensure that the appropriate expertise is available for the affected media, the EPC on-call representative may immediately confer with an SME of the EPC group that has programmatic responsibility. If an SME from the responsible group is able to respond to the event, the remaining steps in this procedure may be passed to that person. See the link for EPC Contacts: [Environmental Protection and Waste Management Contacts list](#).

Note: The Pueblo Environmental Department(s) notification process will be implemented in parallel with regulatory- or permit-driven reporting. In the event of a conflict between the two reporting needs, this process is second priority.

4.3 Follow-up Reporting

This procedure describes the initial external notifications (within the first 24 hours) to regulatory agencies. After completion of the steps in this procedure, the EPC group or team specifically responsible for compliance with the relevant regulations will complete the required notifications and reports, as applicable under the appropriate regulations, according to established procedures.

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4.4 Summary of Policy Reporting

The EPC on-call representative and spill response SMEs have the authority and responsibility for deciding when to report an event and for making notifications to regulatory agencies within the applicable regulatory deadlines.

LANL management and Department of Energy (DOE) Los Alamos Field Office (NA-LA) must be informed as soon as possible that a report was or will be made, but their approval is not required prior to the report being made to the regulatory agency. LANL Facility Operations Director (FOD) management, with input from EPC SMEs, will determine if an Occurrence Reporting Processing System (ORPS) report or other type of Lessons Learned will be necessary.

NOTE: EOC maintains a current list of on-call LANL managers.

4.5 Using this procedure

This procedure has seven separate paths (and corresponding sections) to follow for determining if a release or event is reportable. Follow each of these paths to determine if one or more are applicable:

- [1] Resource Conservation and Recovery Act (RCRA)
- [2] Toxic Substances Control Act (TSCA)
- [3] Clean Water Act (CWA), New Mexico Water Quality Act (NMWQA), and New Mexico Water Quality Control Commission (NMWQCC) Regulations
- [4] Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) and Emergency Planning and Community Right-to-Know Act (EPCRA)
- [5] Clean Air Act (CAA)
- [6] Biological
 - [a] Endangered Species Act
 - [b] Bald and Golden Eagle Protection Act
 - [c] Migratory Bird Treaty Act
 - [d] New Mexico Wildlife Conservation Act
- [7] Cultural
 - [a] National Environmental Policy Act (NEPA)
 - [b] National Historic Preservation Act
 - [c] Native American Graves Protection and Repatriation Act
 - [d] Archaeological Resources Protection Act

| | | |
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Each release needs to be evaluated for all potential reporting requirements. For example, a Reportable Quantity (RQ), defined under CERCLA or EPCRA may not be met, **but the release may be reportable** under RCRA, New Mexico Water Quality Control Commission (NMWQCC), and/or Clean Water Act (CWA) requirements.

NOTE: The 24-hour deadline (immediate in some cases) applies regardless of whether it occurs during business hours, after business hours or on non-business days.

4.5.1 Determining if a Release is Reportable under RCRA

Follow the flow chart in Attachment 1 to determine if an event is reportable under RCRA regulations.

Under the RCRA permit No. NM0890010515-1 requirements, the EOC manager determines if the “RCRA Contingency Plan” provisions should be implemented. The EPC on-call representative or an EPC Waste Management Programs (EPC-WMP) RCRA SME performs notifications that may be required.

The EOC Manager will normally attempt to contact an EPC-WMP SME for guidance in making this decision. If the EPC-WMP SME is successfully contacted, the remaining steps for determining if a release is reportable under RCRA may be passed on to this individual.

The EPC on-call representative makes the determination that one or more of these conditions occurred through consultation with EPC-WMP and appropriate SMEs. The 24-hour notification can be made by the EPC on-call representative or by an EPC SME.

The EOC manager makes the determination that unstable chemicals, leaking, or compromised gas cylinders represent an emergency situation. The EOC manager works with EPC-WMP to ensure that 24-hour notifications are made by the on-call representative or EPC-WMP SME.

If a release/event is reportable under RCRA rules, determine if the release/event is reportable under other rules and proceed to Section 4.4.5 Reporting a Release or Event.

4.5.2 Determining if a Release is Reportable under TSCA

In practice, only spills of Polychlorinated Biphenyls (PCBs) or PCB-suspect untested mineral oil to the environment (generally outdoors or with the potential to reach the outdoors) are reportable. Spills that are contained indoors are generally not reported.

A discharge of PCBs is reportable to the Environmental Protection Agency (EPA) under TSCA if 1 pound of PCBs by weight is released in accordance with [40 CFR 761.125\(a\)\(1\)](#), *Requirements for PCB spill cleanup*. Notify the EPA regional office and proceed with the immediate clean-up requirements noted in [40 CFR 761.125\(a\)\(1\)](#) in the shortest possible time after discovery, but in no case later than 24-hours after discovery. Additionally, reporting requirements are triggered if over 270 gallons of untested mineral oil suspected of containing PCBs has been spilled.

Follow the steps in Section 4.5.4, *Determining if a Release is Reportable under CERCLA, EPCRA, or Other Regulations* to determine if the RQ for PCBs has also been exceeded.

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There are six items containing PCBs that are out of service at the Chemistry and Metallurgy Research (CMR) Building. They are scheduled for removal within the next year or so. All other known PCB equipment at the Laboratory have been taken out-of-service and disposed of in accordance with TSCA regulations.

If a release is reportable under TSCA, continue through the next sections to determine if the release/event is reportable under other rules and proceed to *Reporting a Release or Event* and determine if additional reporting is necessary.

| If the spill is ... | Then... |
|--|---|
| equal to or over 1 pound by weight of PCBs (TSCA) or greater than 270 gallons of untested mineral oil suspected of containing PCBs | Report to the National Response Center (1-800-242-8802) immediately (within 15 minutes of discovery). Additionally, contact EPA Region 6 (Office of Prevention, Pesticides and Toxic Substances Branch) through EPA's 24-hour spill response number 866-372-7745 as soon as possible after discovery, but no later than 24-hours after discovery. |

4.5.3 Determining if a Release is reportable under the CWA NMWQA, and NMWQCC

20.6.2.1203 New Mexico Administrative Code (NMAC) Reporting

The NM Water Quality Act (NMWQA) does not use Reportable Quantities (as described in the next section). Instead, the NM Water Quality Control Commission (NMWQCC) regulations state, *“With respect to any discharge from any facility of oil or other water contaminant, in such quantity as may with reasonable probability injure or be detrimental to human health, animal or plant life, or property, or unreasonably interfere with the public welfare or the use of property, notifications (to the New Mexico Environment Department (NMED)) and corrective actions are required.”*

The above rule requires the use of professional judgment to determine the magnitude and extent of the release and ultimately if external reporting is required. While no quantifiable metric is available to assist in making this determination, in general if any of the following three conditions are met external reporting will be completed:

- 1) more than 10-gallons of oil or other liquid is released,
- 2) if any volume of oil or other liquid reaches a watercourse, or
- 3) if it adversely impacts a Solid Waste Management Unit (SWMU) or Area of Concern (AOC), for example, requiring excavation or causing erosion.

The EPC on-call representative or SME has the authority and responsibility to make this determination.

Additionally, unplanned releases of potable water or steam condensate require reporting pursuant to [20.6.2.1203 NMAC](#) as directed in the LANL Liquid Discharge Reporting Guidance (Decision Tree), dated March 10, 2009, if:

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- 1) the release reaches a watercourse,
- 2) it adversely impacts a SWMU or AOC, or
- 3) a volume greater than 5,000 gallons is discharged (per location per day).

Consult with the Triad LLC, EPC-WMP Consent Order Site coordinator to confirm the location and to determine if there are potential impacts to SWMUs or AOCs from any releases that may occur.

Groundwater Discharge Permit Reporting

The Laboratory has three current or draft Groundwater Discharge Permits (DPs) that include notification and reporting requirements in the event of an unpermitted discharge. Spills of **any volume** associated with any of the Groundwater DPs require reporting to NMED pursuant to [20.6.2.1203 NMAC](#).

1) DP-857: Sanitary Waste Water System (SWWS) Plant, Sanitary Effluent Reclamation Facility (SERF), and Sigma Mesa Evaporation Basins. Permit Condition No. 44.

The unauthorized release of untreated and treated sanitary wastewater, reuse wastewater, blended wastewater, and reject wastewater would be subject to reporting under Condition No. 44.

2) DP-1589: Septic Tank/Disposal Systems. Permit Condition No. 23.

The unauthorized release of untreated wastewater, septage, treated wastewater surfacing from failing disposal systems (leach fields), and treated wastewater surfacing from overflowing septic tanks would be subject to reporting under Condition No. 23.

3) DP 1132: Radioactive Liquid Waste Treatment Facility (RLWTF). Permit Condition No. 38.

In the event of a release unauthorized in this Discharge Permit, the Permittees shall take measures to mitigate damage from the unauthorized discharge and initiate the notification and corrective actions required in [20.6.2.1203 NMAC](#) under Condition No. 38.

Clean Water Act Reporting

Oil discharges (film/sheen/discoloration) to water in stream channels must also be reported to the National Response Center (NRC) immediately (within 15 minutes of discovery) pursuant to [40 CFR 110.6, Discharge of Oil](#).

National Pollutant Discharge Elimination System (NPDES) Outfall Reporting

The EPC-DO on-call SME must provide notification to the NPDES Outfall Permit Program Lead and/or the EPC-CP Water Quality Team Leader in the event of a leak, unplanned release, overflow, or bypass of treatment from an NPDES permitted outfall and/or the sources upon discovery in order to meet applicable reporting requirements (i.e., 24-hr and 5-day written). Outfall sources include, but are not limited to, the following:

- 1) Sanitary Waste Water System (SWWS) equipment, tanks, lift stations, septic tanks, and piping.

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- 2) Sanitary Effluent Reclamation Facility (SERF) equipment, tanks, lift stations, and piping.
- 3) Radioactive Liquid Waste Treatment Facility (RLWTF) equipment, tanks, lift stations, and piping.
- 4) High Explosives Waste Treatment Facility (HEWTF) equipment, tanks, and piping.
- 5) Cooling towers.
- 6) Storage tanks (i.e., influent, effluent, reuse tank).
- 7) Other water treatment equipment and piping.

4.5.3.1 Reporting Requirements for Petroleum Storage Tanks

As defined in [20.5.118 NMAC](#), *Environmental Protection, Petroleum Storage Tanks - Reporting Investigations of Suspected and Confirmed Releases*, the NMED requires verbal reporting within 24-hours of a petroleum product release from regulated tanks to the NMED Petroleum Storage Tank Bureau (PSTB) when there is:

- 1) any suspected or confirmed release of regulated substances
- 2) evidence of release of regulated substances
- 3) unusual operational conditions (that would cause concern about a release)
- 4) monitoring results that show loss from the system

Regulated tanks include those with a capacity between 1,320 gallons and 55,000 gallons. Regulated substances for Aboveground Storage Tanks (AST) includes, but is not limited to, petroleum and petroleum-based substances comprised of a complex blend of hydrocarbons derived from crude oil through processes of separation, conversion, upgrading and finishing, such as motor fuels (including ethanol-based motor fuels), jet fuels, distillate fuel oils, residual fuel oils, lubricants, petroleum solvents, and used oils.

Notice of any suspected or confirmed release from a storage tank system needs to be completed within 24 hours. Contact the EPC-CP AST Program Leader and/or the EPC-CP Water Quality Team Leader prior to completing any external notifications. The PSTB can be reached at 505-476-4397 (Santa Fe PSTB District 2) during business hours and 505-827-9329 (NMED Emergency Spill Hotline) during non-business hours. The NRC must be contacted at (800) 424-8802 immediately if oil or a sheen of oil from a spill or release hits a watercourse. A written report describing the spill, release or suspected release and any investigation or follow-up action needs to be submitted to the PSTB within 7 days of the incident.

If a facility discharges greater than 1,000 gallons of oil in a single discharge or discharges more than 42-gallons of oil in each of two discharges, as described in 40 CFR 112.1(b) and occurring within any twelve month period, the facility shall submit a report to the EPA Regional Administrator within 60 days of the discharge per 40 CFR 112.4.

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4.5.3.2 Reporting Requirements under the NPDES Pesticide General Permit

Adverse incidents require reporting to the EPA under the NPDES Pesticide General Permit (PGP). An adverse incident is defined as an unusual or unexpected incident resulting from pesticide applications that an operator has observed upon inspection or of which the operator otherwise becomes aware, in that:

- 1) There is evidence that a person or non-target organism has likely been exposed to a pesticide residue, and
- 2) The person or non-target organism suffered a toxic or adverse effect.

The phrase toxic or adverse effect includes effects that occur within Waters of the United States on non-target plants, fish, or wildlife that are unusual or unexpected (e.g., effects are to organisms not otherwise described on the pesticide product label or otherwise not expected to be present) as a result of exposure to a pesticide residue, and may include:

- [a] Distressed or dead juvenile and small fishes
- [b] Washed up or floating fish
- [c] Fish swimming abnormally or erratically
- [d] Fish lying lethargically at water surface or in shallow water
- [e] Fish that are listless or nonresponsive to disturbance
- [f] Stunting, wilting, or desiccation of non-target submerged or emergent aquatic plants
- [g] Other dead or visibly distressed non-target aquatic organisms (amphibians, turtles, invertebrates, etc.)

The phrase toxic or adverse effects also includes any adverse effects to humans (e.g., skin rashes) or domesticated animals that occur either from direct contact with or as a secondary effect from a discharge (e.g., sickness from consumption of plants or animals containing pesticides) to Waters of the United States that are temporally and spatially related to exposure to a pesticide residue (e.g., vomiting, lethargy).

If an operator observes or otherwise becomes aware of an adverse incident due to pesticide application, the operator must notify the EPA Incident Reporting contact within 24 hours of the operator becoming aware of the adverse incident. EPA Incident Reporting Contacts are listed at <https://www.epa.gov/npdes/pesticide-permitting>.

If an operator becomes aware of an adverse incident affecting a federally listed threatened or endangered species or its federally designated critical habitat, that may have resulted from a discharge from the operator's pesticide application, the operator must immediately (within 15 minutes of discovery) notify the U.S. Fish and Wildlife Service. This notification must be made by phone to the contact listed on the EPA's website (<https://www.epa.gov/npdes/pesticide-permitting>).

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4.5.4 Determining if a Release is Reportable under CERCLA or EPCRA

Under CERCLA or EPCRA, the RQ is the threshold that requires immediate regulatory notification of a release. An RQ is based on the quantity of chemical released within any 24-hour period. Information on the RQ program as implemented by the DOE is on the web at:

<https://www.energy.gov/ehss/services/environment/environmental-policy-and-assistance/reportable-quantity-calculator>

- 1) In the event of a release, determine the quantity released in pounds or kilograms for hazardous substances, or in curies for a release of radioactive material.
- 2) Compare the released value with the RQ threshold.
 - [a] CERCLA RQs of hazardous substances are listed in [40 CFR 302.4](#), *Designation of Hazardous Substances*. Hazardous substances and their RQs are listed in Table 302.4, and radionuclides are listed in [40 CFR 302.4, Appendix B](#). The DOE has also approved use of an on-line “Reportable Quantity Calculator” that can be used to assist in this determination. The RQ calculator is located at: <https://rqcalculator.projectenhancement.com/>
 - [b] If a hazardous material is not listed in the statute, the RQ has been set by Congress to be 100 pounds. For radionuclides, the RQ is 1 curie for radionuclides not otherwise listed.
 - [c] For mixtures of hazardous materials and/or radionuclides, or when the hazardous material table and radionuclide table are in conflict, the lowest RQ shall apply.
 - [d] If an RQ is met or exceeded, an immediate (within 15 minutes of discovery) notification must be made to the NRC (1-800-424-8802) pursuant to [40 CFR 302.6](#), *Notification of Requirements*.
 - [e] If a release of an airborne radionuclide exceeds an RQ listed in Appendix B to [40 CFR 302.4](#), verbally notify the EPA Region 6 Health Physicist after the NRC notifications have been completed. The EPA Region 6 Health Physicist can be reached at:
Office-(214) 665-8541; Mobile-(214) 755-1530; Home-(972) 937-1900.

The team leader for Radioactive Air Emissions Management (RAEM) in EPC-CP can provide assistance with determining RQs and releases for radioactive material releases and with notifying EPA Region 6.
 - [f] If an RQ is not exceeded, notify the appropriate media SME so they can perform any required follow-up notification and documentation with the appropriate regulatory agency.
- 3) Additional notifications under EPCRA must be made if a release of a hazardous or extremely hazardous substance listed in [40 CFR 355](#) Appendices A and B occurs.

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- [a] If an extremely hazardous substance is not listed in the statute, the RQ has been set by Congress to be 1 pound.
- [b] If the released quantity meets or exceeds the RQ established under EPCRA, in addition to notifying the NRC above, an immediate (within 15 minutes of discovery) notification must be made to the Local Emergency Planning Committee (LEPC) community emergency coordinator and to the State Emergency Response Commission (SERC) (see Attachment 2 for contact information).

The lists of CERCLA hazardous substances and EPCRA extremely hazardous substances are two separate lists that include a number of common substances. However, not all extremely hazardous substances are listed hazardous substances. In some instances, a release of an extremely hazardous substance may be reportable under EPCRA, but not reportable under CERCLA.

Releases that occur within a closed space with no emissions to the ambient environment are exempt from CERCLA and EPCRA reporting requirements.

NOTE: Response procedures for “Continuous Releases” are not covered in this procedure.

4.5.4.1 Regulatory Classification of the Released Material

The on-call EPC SME will determine the regulatory classification of the substance released with respect to the hazard classifications:

- 1) Extremely Hazardous Substance (EHS) and/or Hazardous Substance (HS)

Often during the course of an emergency, complete information will not be available regarding type and amount of material released. In this case, best professional judgment must be used to establish the level of confidence associated with the estimates. If the uncertainty is high enough that future estimates may require reporting, it is best to be conservative and report the release following the reporting requirements detailed in Section 4.5.6, *Reporting a Release or Event*.

After determining the RQ of a released material, the EPC on-call representative or SME will perform the following steps to determine if an RQ has been exceeded.

- 1) Obtain an estimate of the quantity and type of material released (e.g., 4 pounds of chlorine gas or 150 curies of tritium).
- 2) Compare this quantity against the RQs provided in [40 CFR Table 302.4](#) and [40 CFR 355, Appendices A and B](#).

If this is an airborne release of radioactive materials that meets or exceeds the RQ, immediate (within 15 minutes of discovery) reporting to the NRC and the EPA Region 6, Regional Health Physicist is required. Note that for radioactive materials, the RQ is provided in activity units (curies or becquerels). Also, note that some materials have an RQ value for both chemical exposure (Table 302.4) and for radiological exposure (Appendix B to 302.4). In these cases, the RQ applying to the smallest quantity of material will apply.

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For all radioactive material releases, a radiological dose assessment must also be performed within 24-hours of the release. This dose assessment should be made by an environmental health physicist in EPC-CP or EPC-ES. The on-call individual should contact an EPC health physicist for this evaluation.

Immediate evaluation – RQ comparison (of a radioactive material release)

- [a] **If the release...**Is equal to or greater than the RQ then Proceed to Section 4.5.6 Reporting a Release or Event.
 - [b] **If the release...**Is less than the RQ, then No immediate reporting is required. Contact an environmental health physicist in EPC-CP or EPC-ES to complete follow-up dose assessment.
- 4) If this is a release of non-rad material, it is reportable if the RQ is exceeded:
- [a] **If the amount released is...**Equal to or greater than the RQ, then proceed to Section 4.5.6 Reporting a Release or Event.
- 5) Continue to re-evaluate the release as new data becomes available. Perform Steps 1 through 4 as necessary.

4.5.5 Determining Release Impacts to Biological or Cultural Resources

There are laws and regulations related to the protection of biological and cultural resources that are applicable to the Laboratory. These laws and regulations include:

- 1) National Environmental Policy Act (NEPA)
- 2) Endangered Species Act
- 3) Bald and Golden Eagle Protection Act
- 4) Migratory Bird Treaty Act
- 5) New Mexico Wildlife Conservation Act
- 6) National Historic Preservation Act
- 7) Native American Graves Protection and Repatriation Act
- 8) Archaeological Resources Protection Act

The EPC-CP SME is responsible for contacting a biological resources SME and a cultural resources SME within one business day from when a release/event occurs. This allows biological and cultural resources staff to report to their regulators within the required timeframe, identify if additional requirements are necessary for clean-up activities, and complete any other associated compliance regulations. The cultural resources SME will identify if there are impacts from the release/event to archaeological sites or historic buildings/structures.

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Additionally, if there is a release of contaminants to a wetland, or impacts to the beneficial values of a wetland, the EPC on-call representative will coordinate with other EPC SMEs for applicable federal and state notifications and required actions as outlined in Section 4.5.3.

Contact a Biological Resources SME through the EPC-ES group office at 505-665-8855 and epc_biologists@lanl.gov as parallel contact information for Biological Resources.

Contact a Cultural Resources SME through the EPC-ES group office at 505-665-8855 or use cultural@lanl.gov.

4.5.6 Reporting a Release or Event

If a release or event is reportable (as determined by one or more of the previous sections), the Laboratory is required to meet certain reporting requirements. The emergency notification requirements must be followed upon determination that a release or event is reportable.

For informational purposes, a Summary of Emergency Release or Event Reporting Requirements is provided in Attachment 2. This document summarizes the primary statutes and the associated reporting requirements.

Maintain a notebook to record pertinent information about the release and to document the actions taken (see Section 6.0 *Records*).

Any release to the environment that has been determined to be reportable by the EPC on-call representative or SME shall be reported through the LANL management chain in accordance with [PD1200, Emergency Management Program](#), and [P322-4, Performance Improvement from Abnormal Events](#).

Triad management and DOE shall be notified if a release notification to state or federal regulatory agencies is required. Management approval is not required prior to completing environmental notifications to the regulatory agencies in order to assure that the deadline for reporting is not exceeded.

Perform the following steps immediately after establishing that reporting is required:

- 1) Compile release information including:
 - a) The source, cause, type and quantity of the release;
 - b) Time and duration of the release;
 - c) Extent of any protective and corrective actions taken;
 - d) Name, address, and telephone number of the person to contact for further information
 - e) Whether the substance is an HS or EHS
 - f) Associated health risks and medical attention necessary for exposed individuals;
 - g) If available, information concerning the release of any contaminants, hazardous and/or mixed waste that may endanger public or private drinking water supplies;

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- h) Assessment health risks and medical attention necessary for exposed individuals;
 - i) If available, estimated quantity and disposition of recovered material that resulted from the incident;
 - j) Precautions to take due to the release/event, including, in the case of fire, those associated with special hazards due to the release of contaminants, hazardous and/or mixed waste;
 - k) Any other information that may help emergency personnel responding to the incident; and
 - l) Environmental media impacted from the release,
- 2) Notify LANL management, the Laboratory Tribal Liaison, and the respective FOD.
- NOTE:** Management approval is not required prior to completing environmental notifications to the regulatory agencies in order to assure that the deadline for reporting is not exceeded.
- 3) Provide notification to the regulatory agency as required by the applicable regulation(s) detailed in Sections 4.5.1 – 4.5.4. Reference Attachment 2 for a summary of the applicable reporting requirements.
- 4) Notify programmatic SMEs that may be impacted or required to complete follow-up reporting.

4.5.7 Steps to Notify LANL Management, the Laboratory Tribal Liaison, and Department of Energy Los Alamos Field Office (NA-LA)

The EPC on-call representative will complete the following steps to provide notification to LANL Management and the Laboratory Tribal Liaison.

- 1) Determine that a release to the environment is reportable to state or federal entities as required under applicable regulations.
- NOTE:** Occurrence Reporting and Procession System (ORPS) reporting is a FOD and Responsible Associate Director (RAD) responsibility and commonly they will seek advisement from EPC SMEs.
- 2) Provide notification to the EPC-CP Water Quality Team Leader, the EPC-CP Group Leader, and the EPC-DO Division Leader of the release and the required external notifications.
 - 3) Provide notification to the Laboratory Tribal Liaison (if release/event impacts or may potentially impact Pueblo lands) of the release and the required external notifications. Notification to the impacted Pueblo Environment Department will be coordinated through the Laboratory’s Tribal Liaison (505-629-2198) who will contact and notify the Department of Energy (DOE) Los Alamos Field Office (NA-LA) Intergovernmental Specialist to notify the Pueblos pursuant to protocols.

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- 4) Complete environmental reporting to state and federal agencies in accordance with all applicable regulations.
- 5) Notify the appropriate program SME that may be impacted or be required to complete follow-up release reporting.

After all the above notifications have been made, or when requested, the EPC on-call representative or SME will hand off responsibility for additional actions and follow-up to the affected environmental group. (The group that will be responsible will depend on the type and location of the release and the governing regulations or statutes.)

In order to communicate events at LANL that may impact the public and or the environment, EPC staff may provide a courtesy notification to NMED of events that may not require formal regulatory notification. Examples of such events in the past have been small wildland fires.

5.0 TRAINING

The training method for this procedure will be “self-study” (reading) and is documented in accordance with [PD781](#), *Training Program Management*.

The following personnel require training before implementing this procedure:

- EPC managers, designated on-call representatives, and SMEs who may be asked to fulfill immediate reporting requirements during release-related exercises or during actual releases.

Annual retraining to this procedure is required.

6.0 RECORDS

EPC-CP is the Office of Record for this document and must be maintained in accordance with [P1020-1](#), *Laboratory Records Management*. Records generated by this document will be submitted to the records management designated point-of-contact or document manager for document management.

- Field documentation of the release, include:
 - Time and date of the release
 - Time, date, and description of notifications
 - Location and source of the release
 - Type of material released
 - Quantity of material released
 - Impacted media
 - Time release was stopped
 - Any immediate mitigation actions taken to contain or control the release

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- Documentation of any verbal notifications
- Samples taken
- Copies of any written notifications generated
- Documentation of any analytical results and quality assurance of results
- Contingency and/or emergency plan documentation
- Documentation of any RCRA permit non-compliance that threatens human health and environment
- Documentation of treatment of any RCRA unstable chemicals, leaking, or compromised gas cylinders

As a result of implementing this procedure, below are the records generated that are identified by title and type.

| Record Title | QA Record | Non-QA Record |
|---|-------------------------------------|--------------------------|
| Copies of any written notifications generated | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Documentation of any analytical results, and quality assurance of results | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Contingency and / or emergency plan documentation | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Documentation of any RCRA permit non-compliance that threatens human health and environment | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Documentation of treatment of any RCRA unstable chemicals, leaking or compromised gas cylinders | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

7.0 DEFINITIONS AND ACRONYMS

7.1 Definitions

Continuous Release – A release is continuous if it “occurs without interruption or abatement or if it is routine, anticipated, intermittent, and incidental to normal operations or treatment processes.” The release must also be “stable in quantity and rate,” which means that it must be predictable and regular in the amount and rate of emission. The response procedures for continuous releases are not covered by this document. See guidance in Reporting Continuous Releases of Hazardous and Extremely Hazardous Substances under CERCLA and EPCRA.

Environment – Includes "water, air, land, and the interrelationship that exists among and between water, air, land, and all living things." ([40 CFR 355.20](#)).

Extremely Hazardous Substance (EHS) – EPCRA establishes emergency reporting requirements for extremely hazardous substances in [40 CFR 355](#), Appendix A. All of these substances are also CWA and CERCLA “hazardous” substances.

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Hazardous Substance (HS) – These substances are summarized in [40 CFR Part 302](#). As used in this context, this refers to:

- 1) any elements, compounds, mixtures, solutions, or substances specially designated by EPA under Section 311 of the Clean Water Act (CWA) (40 CFR 116.4);
- 2) any toxic pollutants listed under Section 307(a) of the CWA;
- 3) any hazardous substances regulated under Section 311 (b)(2)(A) of the CWA;
- 4) any listed or characteristic RCRA hazardous waste (40 CFR 261),
- 5) any hazardous air pollutants listed under Section 112 of the Clean Air Act (CAA); or
- 6) any imminently hazardous chemical substances or mixtures regulated under Section 7 of the Toxic Substances Control Act (TSCA).

Release – Any unpermitted spilling, leaking, pumping, pouring, emitting, emptying, discharging, injecting, escaping, leaching, dumping, or disposing of contaminants into the environment, excluding:

- 1) emissions from the engine exhaust of any vehicle,
- 2) certain releases of source, byproduct, or special nuclear material from a nuclear incident, or
- 3) normal application of fertilizer.

7.2 Acronyms

| | |
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| AOC | Area of Concern |
| AST | Aboveground Storage Tank |
| CAA | Clean Air Act |
| CERCLA | Comprehensive Environmental Response, Compensation, and Liability Act |
| CMR | Chemistry and Metallurgy Research |
| CFR | Code of Federal Regulations |
| CWA | Clean Water Act |
| DDOPS | Deputy Directorate for Operations |
| DOE | Depart of Energy |
| DOE-LAFO | Department of Energy – Los Alamos Field Office |
| EHS | Extremely Hazardous Substance |
| EM | Office of Environmental Management |
| EOC | Emergency Operations Center |
| EPA | Environmental Protection Agency |
| EPC-CP | Environmental Protection and Compliance – Compliance Programs Group |
| EPC-DO | Environmental Protection and Compliance Division |
| EPC-ES | Environmental Protection and Compliance – Environmental Stewardship Group |

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| EPCRA | Emergency Planning and Community Right-to-Know-Act |
| EPC-WMP | Environmental Protection and Compliance – Waste Management Programs Group |
| ESHQSS | Environment, Safety, Health, Quality, Safeguards and Security |
| FOD | Facility Operations Director |
| GWDP | Ground Water Discharge Permit |
| HEWTF | High Explosives Waste Treatment Facility |
| HS | Hazardous Substance |
| IWD | Integrated Work Document |
| IWD | Integrated Work Document |
| LANS | Los Alamos National Security |
| LANL or Laboratory | Los Alamos National Laboratory |
| LEPC | Local Emergency Planning Committee |
| MOA | Memorandum of Agreement |
| NA-LA | Los Alamos Field Office |
| NMAC | New Mexico Administrative Code |
| NMED | New Mexico Environment Department |
| NMWQA | New Mexico Water Quality Act |
| NMWQCC | New Mexico Water Quality Control Commission |
| NNSA | National Nuclear Security Administration |
| NPDES | National Pollutant Discharge Elimination System |
| NRC | National Response Center |
| ORPS | Occurrence Reporting and Processing System |
| OSC | On-Scene Commander |
| PADOPS | Principal Associate Directorate Operations |
| PCBs | Polychlorinated Biphenyls |
| PGP | Pesticide General Permit |
| PST | Petroleum Storage Tank |
| PSTB | Petroleum Storage Tank Bureau |
| QP | Quality Procedure |
| RAD | Responsible Associate Director |
| RAEM | Radioactive Air Emissions Management team within EPC-CP |
| RCRA | Resource Conservation and Recovery Act |
| RLM | Responsible Line Manager |
| RQ | Reportable Quantity |
| SARA | Superfund Amendments and Reauthorization Act |
| SDS | Safety Data Sheet |
| SERC | State Emergency Response Commission |
| SERF | Sanitary Effluent Reclamation Facility |

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| SEO-DO | Security and Emergency Operations Division |
| SME | Subject Matter Expert |
| SWMU | Solid Waste Management Unit |
| SWWS | Sanitary Waste Water System |
| TSCA | Toxic Substances Control Act |
| UIC | Underground Injection Control |

8.0 REFERENCES

- 40 CFR 261, Protection of Environmental, Identification and Listing of Hazardous Waste
- 40 CFR 302, Protection of Environment, EPA, Designation, Reportable Quantities, and Notification
- 40 CFR 302.4, Designation of Hazardous Substances
- 40.CFR.302.6, Notification of Requirements
- 40 CFR 355, Emergency Planning & Notification
- 40 CFR 761.125(a)(1), Requirements for PCB spill cleanup
- 40 CFR 110.6, Discharge of Oil
- 20.5.7 NMAC, Environmental Protection, Petroleum Storage Tanks - Reporting Investigations of Suspected and Confirmed Releases
- DOE – Office of Environmental Guidance, CERCLA Information Brief, EH-231-001-0490 (April 1990)
- Federal Register, Volume 67, No. 47, Notices FRL-7172-4, Guidance on the CERCLA Section 101(10)H, Federally Permitted Release Definition for Certain Air Emissions
- PD1200, *Emergency Management Program*
- P1020-1, Laboratory Records Management
- P300, Integrated Work Management
- PD781, Training Program Management
- P322-3, *Performance Improvement from Abnormal Events*
- LANL RCRA Permit No. NM0890010515-1
- LANL NPDES Permit No. NM0028355
- National Response Center (NRC) Web Site: <http://www.nrc.uscg.mil/>
- NMWQCC Regulations, 20.6.2 NMAC, dated December 1, 2001
- New Mexico Environment Department Groundwater Discharge Permit DP-857
- New Mexico Environment Department Groundwater Discharge Permit DP-1132

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New Mexico Environment Department Groundwater Discharge Permit DP-1589

New Mexico Administrative Code (NMAC) 20.5.7

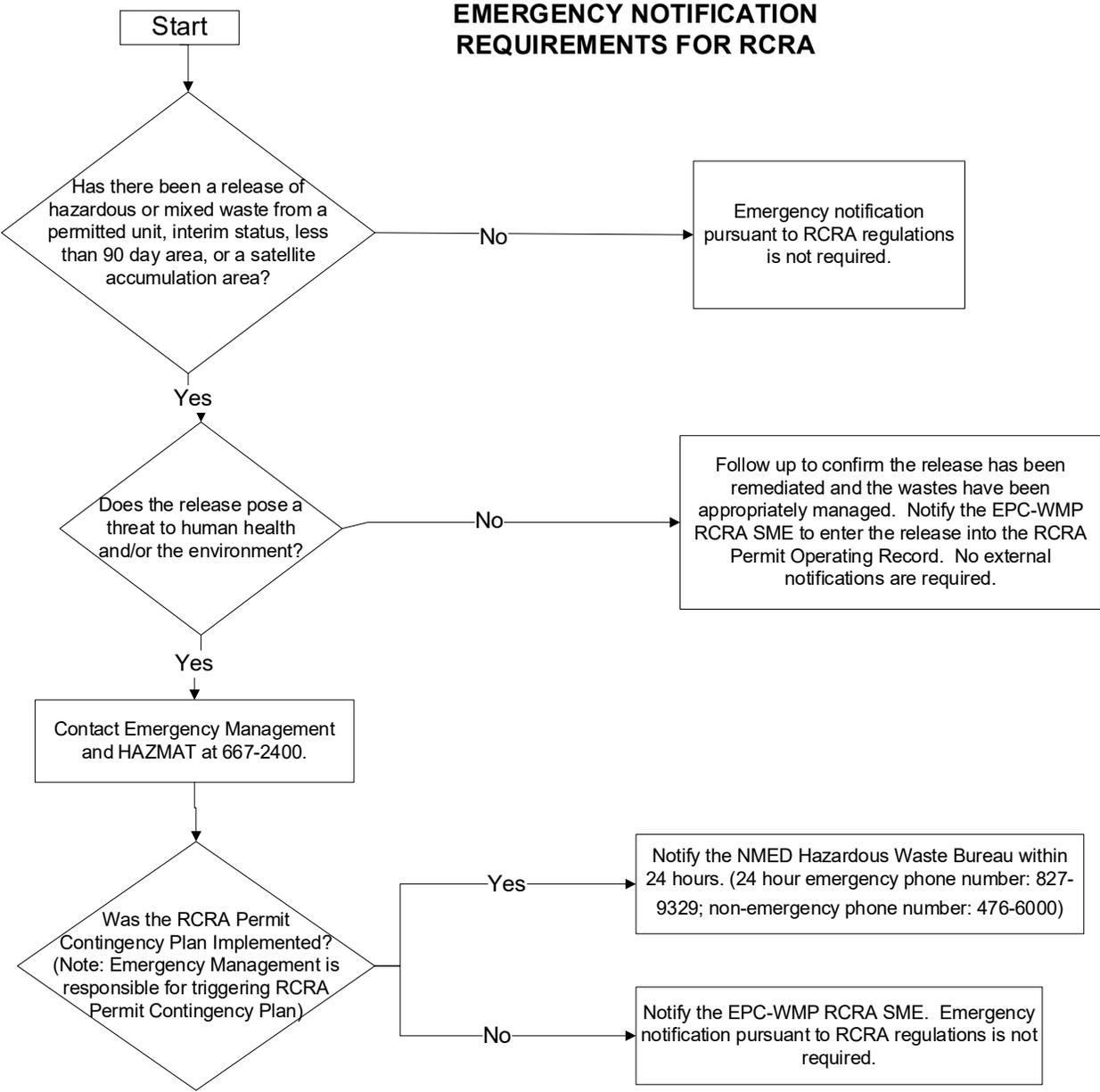
9.0 APPENDICES

10.0 ATTACHMENTS

Attachment 1: *Emergency Notification Requirements for RCRA*

Attachment 2: *Summary of Emergency Release or Event Reporting Requirements*

Attachment 1: Emergency Notification Requirements for RCRA



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Attachment 2: Summary of Emergency Release or Event Reporting Requirements

NOTE: This is only a guide and does not cover all federal, state, or permit reporting requirements. Refer to the Code of Federal Regulations and the RCRA Permit for more details regarding these regulations.

| STATUTE | REGULATIONS | INCIDENT | Immediate Reporting Requirements | Follow Up Reporting Requirements |
|--|--|---|--|---|
| Clean Water Act | 40 CFR §110.6 | Oil discharge (film/sheen/discoloration) to water surface or shoreline, or violation of water quality standards. | Immediately (within 15 minutes of discovery) notify the National Response Center. | Follow-up not required. |
| Clean Water Act | Part III of NPDES Permit No. NM0028355 | Leak or unplanned release from an NPDES permitted outfall. | Notify the NPDES Outfall Permit Program Lead and EPC-CP Water Quality Team Leader upon discovery. The program lead or the EPC-CP Water Quality Team Leader will complete initial reporting requirements as required. | Required follow-up reporting will be completed by the NPDES Outfall Permit Program Lead and EPC-CP Water Quality Team Leader. |
| Clean Water Act (CWA)-NPDES Pesticide General Permit | 40 CFR §122.28 | Adverse incident that includes evidence that a person or non-target organism has been exposed to a pesticide residue or the person or non-target organism suffered a toxic or adverse effect. | Notify the EPA Region 6 Pesticide Permitting contact (214) 665-7500 within 24 hours. | Submit a 30 Day Adverse Incident Written Report to the EPA Regional Office. |
| New Mexico Water Quality Control Commission Regulations (NMWQCC Regulations) | 20.6.2.1203 NMAC | Discharge from any facility of oil or other water contaminant, in such quantity as may with reasonable probability injure or be detrimental to human health, animal or plant life, or property, or unreasonably interfere with the public welfare or use of the property. | Notify the New Mexico Environment Department 505-827-9329 within 24 hours. | Submit 7 and 15 Day written follow up Corrective Action Reports (Copy EPA Region 6 on the 7 and 15 Day Reports). |
| New Mexico Water Quality Control Commission Regulations (NMWQCC Regulations) | 20.6.2.3104 NMAC | Unplanned release of any volume from an activity or facility covered under an active Groundwater DP: DP-857: SWWS Plant, SERF, and Sigma Mesa Evaporation Basins DP-1589: Septic Tank/Disposal Systems DP-1132 Radioactive Liquid Waste Treatment Facility | Notify the New Mexico Environment Department 505-827-9329 within 24 hours. | Submit 7 and 15 Day written follow up Corrective Action Reports (Copy EPA Region 6 on the 7 and 15 Day Reports) |

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| STATUTE | REGULATIONS | INCIDENT | Immediate Reporting Requirements | Follow Up Reporting Requirements |
|---|--------------------|--|---|---|
| New Mexico Petroleum Storage Tank Bureau Regulations | 20.5.118 NMAC | A release of a petroleum product from regulated aboveground storage tank that exceeds 25 gallons, that causes a sheen on nearby surface water, or that creates a vapor hazard pursuant to 20.5.119.1902 NMAC | Contact the EPC-CP AST Program Lead and/or the EPC-CP Water Quality Team Leader prior to completing any external notifications. If required, the Petroleum Storage Tank Bureau (476-4397) or NMED Emergency Spill Hotline (505-827-9329) must be contacted within 24 hours. | A written report describing the spill, release or suspected release and any investigation or follow-up action needs to be submitted to the PSTB within 7 days of the incident. |
| Federal Spill Prevention, Control and Countermeasure Requirements | 40 CFR 112.4 | A discharge of more than 1000 gallons of oil or more than 42 gallons of oil in a 12-month period. | Contact the EPC-CP AST Program Lead and/or the EPC-CP Water Quality Team Leader prior to completing any external notifications. | A written report describing the cause of the release / discharge of oil, corrective actions, measure's to prevent recurrence shall be submitted to the EPA Regional Administrator within 60 days. |
| Comprehensive Environmental, Response, Compensation, and Liability Act (CERCLA) | 40 CFR §302.6(a) | Hazardous substance (listed in 40 CFR Table 302.4) release (Equal to or greater than an RQ). | Immediately (within 15 minutes of discovery) notify the National Response Center 1-800-424-8802. | Follow-up not required. |
| Emergency Planning and Community Right- to-Know Act (EPCRA) | 40 CFR§ 355.40 | Release of an extremely hazardous substance (listed in 40 CFR Part 355 Appendices A and B) or CERCLA hazardous substance (listed in 40 CFR Table 302.4) equal to or greater than RQ. | Immediately (within 15 minutes of discovery) notify the LEPC (505-662-8283) the SERC (505-476-9635). Immediately notify the 911 operator for a release that occurs during transportation or from storage incident to transportation. Notifying the LEPC/SERC is only required for a release of an Extremely Hazardous Substance. | A written follow-up emergency notice must be submitted to the LEPC and SERC as soon as practicable after the release. |

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| STATUTE | REGULATIONS | INCIDENT | Immediate Reporting Requirements | Follow Up Reporting Requirements |
|---|--|---|--|--|
| Resource Conservation and Recovery Act (RCRA) | 40 CFR 262.34, 263.30, 264.51, 264.56 & .196, 265.51, .56 & .196, 270.14, & .30, 273.17, .37 & .54, 279.43 & .53, 280.50, .52, .53, .60, & .61 | Release of hazardous or mixed waste from a permitted unit, interim status, less than 90 day area or a satellite accumulation area which the RCRA Permit Contingency Plan was triggered. | Notify NMED Hazardous Waste Bureau within 24 hours (24 hour emergency phone number: 827-9329; Non-emergency phone number: 476-6000) See Attachment 1 for additional details. | Submit written report to NMED HWB within 5 days. |
| Clean Air Act/ Radionuclide NESHAP | 40 CFR 61, Subpart H | Airborne release of radioactive material in excess of an RQ. | Notify the EPA Region 6 Health Physicist (Office-(214) 665-8541; Mobile-(214) 755-1530; Home – (972) 937-1900) immediately after providing notification to the NRC. | Follow-up will be coordinated by the EPC-CP RAEM team. |
| New Mexico Air Quality Regulation | 20 NMAC 2.7 | Incidents in which excess emissions exceed an air quality regulatory limit or air permit emission limit. | File initial report to NMED AQB no later than the end of the next business day after the exceedance was discovered. (Submitted on-line via NMED AQB Secure Extranet Portal (SEP)). | Submit final written report to NMED AQB within 10 business days. |
| Toxic Substance Control Act (TSCA) | 40 CFR 761.120, 761.125 | Over 1 pound by weight of PCBs (TSCA) or greater than 270 gallons of untested mineral oil suspected of containing PCBs. | Contact the National Response Center (1-800-242-8802) and the EPA Region 6 Office of Prevention, Pesticides, and Toxic Substances Branch (1-866-372-7745) as soon as | Within 24 hours. Follow-up: as required by agency. |

ATTACHMENT 22: EPC-CP-QP-1007, SPILL INVESTIGATIONS

| | | |
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| EPC-CP-QP-1007 | Revision: 0 |  |
| Effective Date: 06/03/2020 | Next Review Date: 06/03/2023 | |

Environment, Safety, Health, Quality, Safeguards, and Security Directorate
Environment Protection and Compliance – Compliance Programs Group
Quality Procedure

Spill Investigations

Hazard Grading: Low Moderate High/Complex

Usage Level: Reference UET Mixed: UET Sections: _____

Status: New Major Revision Minor Revision

Review w/No Changes Other: _____

Safety Basis: N/A USQ USI Number: _____

Document Author/Subject Matter Expert:

| | | | |
|---------------|---------------|-------------------|----------|
| Name: | Organization: | Signature: | Date: |
| Steve Pearson | EPC-CP | Signature on File | 05-21-20 |

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|--------------|---------------|-------------------|----------|
| Name: | Organization: | Signature: | Date: |
| Steve Wolfel | EPC-CP | Signature on File | 05-27-20 |

Approval Signatures:

| | | | |
|-----------------------|---------------|-------------------|----------|
| EPC-CP Reviewer: | Organization: | Signature: | Date: |
| Michael Saladen | EPC-CP | Signature on File | 05-27-20 |
| EPC-CP RLM: | Organization: | Signature: | Date: |
| Taunia Van Valkenburg | EPC-CP | Signature on File | 06-03-20 |

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REVISION HISTORY

| Document Number and Revision <i>[Include revision number, beginning with Revision 0]</i> | Effective Date <i>[Document Control Coordinator inserts effective date]</i> | Description of Changes <i>[List specific changes made since the previous revision]</i> |
|--|---|--|
| 0 | 12/98 | New Document. |
| 1 | 06/00 | Annual review, added Cerro Grande fire hazards |
| 2 | 07/01 | Annual review. |
| 3 | 06/03 | Annual review. |
| 4 | 04/04 | Annual review, changes to HCPs. |
| 5 | 02/07 | Annual review, changes to reflect organizational restructure. |
| 6 | 07/08 | Annual review. |
| 7 | 09/10 | Biennial Review and revision. |
| 8 | 04/11 | Removed prerequisites, added note re: on-call spill reporting. |
| 9 | 07/13 | Biennial review and revision, implemented new procedure format. |
| 10 | 09/30/15 | Biennial review and revision, implemented new procedure format. Controlled the updated LANL ENV-CP Unplanned Release Report. |
| EPC-CP-QP-1007, Rev. 0 | 06/03/2020 | Format document into new template and update content. This document was formerly ENV-CP-QP-007 R10. |
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1.0 INTRODUCTION

All spills and unplanned releases that occur at Los Alamos National Laboratory (LANL) must be evaluated, remediated, and documented to ensure corrective actions are completed and reporting requirements are fulfilled. The investigation of spills and coordination of corrective actions are delegated to the Environmental Protection and Compliance Division's Compliance Programs Group (EPC-CP).

1.1 Purpose

This EPC-CP procedure describes the steps for performing spill investigations throughout LANL.

1.2 Scope

The scope of this procedure is limited to the performance of spill and unplanned release response by EPC-CP personnel and/or authorized subcontractors. Activities include frequent and unscheduled site visits to any area of the Laboratory upon discovery of a spill or unplanned release as support staff for the on-scene Incident Response Commander, deployed environmental staff, or Facility Operations Directorate (FOD) designated facility representative. Support activities include evaluation and documentation of the spill/unplanned release; guidance regarding remediation; and reporting to regulatory agencies.

1.3 Applicability

This procedure applies to all EPC-CP personnel and after hours on-call personnel responsible for conducting spill investigations.

1.4 Authority

The EPC-CP Group Leader is the issuing authority for this document.

2.0 PRECAUTIONS AND LIMITATIONS

A Hazard Analysis was performed for the tasks associated with this procedure. The hazard rating for the activities described in this procedure is **LOW** and does not require an Integrated Work Document.

2.1 Precautions

Precautions apply to abnormal conditions or hazards to personnel or equipment that can be encountered while performing this procedure. The following precautions shall be taken when performing work using this quality technical procedure:

- Personnel shall wear appropriate clothing (e.g., boots, long pants, gloves, etc.) to perform spill investigations in the field. This may also include safety glasses, a hardhat, a safety vest, and/or safety shoes/boots as required by the location of the tank, equipment, and area to be inspected.

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- Work may be paused or discontinued due to conditions that make a location dangerous for worker safety or prevent personnel from safely accessing a site (i.e., flash floods, lightning, wildfires, hail, icy roads, deep snow, extreme temperatures, or hazardous LANL Operations such as firing shots, burns, or security).

2.2 Limitations

Limitations are defined boundaries (i.e., training, hold points) that are NOT to be exceeded while performing the activities defined in this procedure. The following limitations are applicable to performing work using this technical procedure:

- Perform field activities in accordance with EPC-DO-QP-100, General Field Safety, and/or be escorted by Emergency Management Division – Emergency Operations Group (EMD-EO) or site personnel at all times.
- Spills or unplanned releases that occur on Department of Energy property due to activities performed by an organization not associated with Triad National Security, LLC (e.g., Los Alamos County, Newport News Nuclear BWXT Los Alamos (N3B), etc.) are the responsibility of that organization. The respective organization is responsible for site remediation, completion of corrective actions, and fulfillment any external reporting requirements.
- Some spills or unplanned releases have 15-minute and 24-hour notification requirements. Personnel using this procedure must be familiar with the reporting requirements of [EPC-CP-QP-0903, Environmental Reporting Requirements for Releases](#).

3.0 PREREQUISITE ACTIONS

3.1 Planning and Coordination

The response to spills and/or unplanned releases requires frequent and unscheduled site visits to any area of the Laboratory. Certain facilities and Laboratory locations require additional training and have specific access requirements that must be followed. Specific activities may include one or more of the following:

- Site-Specific Training (e.g., burn grounds).
- Coordination with Access Control and/or Security for escort, keys, safety (e.g., explosives areas, burn grounds, between security fences).
- Security Clearance (i.e., TA-3-66, TA-55, TA-16).

Site access for spill/unplanned release response will require that the Spill Investigator maintain multiple site-specific training requirements. It will also require that the Spill Investigator coordinate with the Emergency Operations Center (EOC), designated FOD representative, and/or Deployed Environmental Professional (DEP).

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3.2 Performance Documents

The following documents are required to perform this procedure:

- EPC-CP-QP-1007 Form 1, Unplanned Release Report.
- EPC-CP-QP-1007 Form 2, 7/15 Day Release Report.
- [EPC-CP-QP-0903, Environmental Reporting Requirements for Releases.](#)

3.3 Special Tools, Equipment, Parts, and Supplies

Ensure the following are available for spill investigations and field visits:

- Personal protective equipment (PPE) as required by each specific site location (e.g., hardhat, safety vest, safety glasses, safety shoes, etc.)
- Cell phone (only government cell phones are allowed in secure areas.) See <https://int.lanl.gov/policy/documents/P217.pdf> for requirements for using portable electronic devices on Laboratory property.
- EPC-CP Spills Pager – ***Note:** Spills Pager can be configured to forward notifications to a government cell phone and email address.
- External dosimeter (as required by site or facility).
- Field Logbook (maintained to record pertinent information about the spill, i.e., time and date of release, location and source of release, type of material released, quantity of material released, impacted media, time release was stopped, any immediate mitigation actions taken to contain or control the release, time, date and description of notifications, etc.).
- Physical or electronic maps (e.g., utility line locations, Solid Waste Management Unit (SWMU) / Area of Concern (AOC) boundaries, land ownership boundaries).

4.0 PERFORMING SPILL INVESTIGATIONS

4.1 Notification of a Spill or Unplanned Release

The EPC-CP personnel that conduct spill investigations ensure the immediate mitigation of spills and timely notification to appropriate regulatory organizations in the event of a spill or unplanned discharge that has or may adversely affect the environment. Spills/unplanned releases are typically reported by a designated FOD representative (i.e., operations, maintenance) or DEP. If the spill/unplanned release is an emergency (i.e., unknown chemical, toxic chemical, flammable chemical, large volume), it will be reported to the EOC at 667-2400 and the EOC will contact the spill investigator using the EPC Spill pager. If the spill/unplanned release is not an emergency, (potable water, small volume, non-toxic), it will be reported via the EPC Spill pager (664-7722) or by phone call from the DEP or other designated FOD representative (i.e., operations, maintenance, security, health and safety). The EPC-CP Spill Program maintains an on-call schedule for after-hours support

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for incidents and unplanned releases. This listing is updated every three months with contact information for trained EPC-CP personnel (see Attachment 1). This schedule is submitted electronically to update the Primary On-Call List available through the Laboratory's EMD-EO Organizations.

Spill Investigator/On Call

- [1] Receive notification of a spill or unplanned release from one of the following:
 - Spill Pager (664-7722) or forwarded cell phone.
 - Emergency Operations Center (667-2400).
 - Phone call from the DEP or other designated FOD representative (i.e., operations, maintenance, security, health and safety).
- [2] Document the following information, at a minimum, in the Spill Logbook:
 - Time, Date, and Location of the spill/unplanned release
 - Owner of Spill and Site Contact
 - Material Spilled
 - Approximate Volume of the Spill/Unplanned Release
 - Source of the Spill
- [3] Request that the EOC identify a safe route to the site/location of the spill or unplanned release.

CAUTION

Spills or unplanned releases that occur on Department of Energy property from an organization not associated with Triad National Security, LLC (e.g., Los Alamos County, N3B etc.) are the responsibility of that organization. The respective organization is responsible for site remediation, corrective actions, and external reporting requirements.

- [4] If the owner of the spill is not associated with Triad National Security, LLC, refer the caller to one of the following, as appropriate:
 - Los Alamos County (LAC) Department of Public Utilities at 662-8333 for releases discovered during normal work hours from LAC owned equipment or infrastructure.
 - After Hours LAC – Call Police Dispatch at 662-8222 for releases outside of normal work hours from LAC owned equipment or infrastructure.
 - N3B Operations Center at 551-2954 for releases from N3B owned equipment or infrastructure.
- [5] If the owner of the spill is associated with Triad National Security, LLC, prepare for a site visit as follows:

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- [a] Based upon location of the spill/unplanned release, determine what access requirements are applicable (i.e., Q/L Clearance, Site Specific Training) (see Section 3.1).
 - [b] Based upon the location and material spilled, determine the appropriate PPE for the site visit (e.g., boots, safety glasses, long pants/shirt, hardhat, safety vest).
- [6] If the spill is de Minimis (low volume); of a known material (potable water, sanitary waste; and personnel have the appropriate knowledge/training, instruct the following:
- [a] The delegated FOD representative, DEP and/or Waste Management Coordinator (WMC) may remediate the spill without the Spill Investigator being present.
 - [b] The designated FOD representative, DEP, and/or WMC must complete an Unplanned Release Report (Attachment 2) and submit a copy of the report to the Spill Investigator for recordkeeping.

4.2 Emergency Spill/Unplanned Release - Responding with EMD-EO

The Spill Investigator will respond to emergency spills/unplanned releases when notified. Emergency spills/unplanned releases typically include unknown materials leaking from bins, drums, and containers, hazardous materials (i.e., acid, caustic, fuel), or large volumes of petroleum products (i.e., leaking tanks, tanker truck accidents). Emergency spills/unplanned releases are managed by the EOC. The following provides the steps a Spill Investigator will follow when responding to support the EOC for an emergency spill/unplanned release.

Spill Investigator/On Call Spill Responder

- [1] Travel to the location of the spill or unplanned release.
- [2] Report to designated Incident Response Coordinator and receive site-specific safety and security briefing.
- [3] Assess and evaluate nature and extent of the release.
- [4] Provide support and guidance to EMD-DO, Hazmat, and Facility personnel on release mitigation measures and requirements. Examples of the types of support and guidance are:
 - [a] Provide the final inspection of the site to ensure that corrective actions were adequate and are complete.
 - [b] Recommend corrective actions.
 - [c] Inspect the site to ensure that the extent of the spill/unplanned release is adequately defined.

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- [d] Recommend how to stabilize the site for further remediation (i.e., secure the site from storm water).
 - [e] Identify watercourse boundaries near the spill/unplanned release.
 - [f] Determine if samples need to be collected.
 - [g] Recommend sample types and analysis.
 - [h] Recommend sample locations and the number of samples to determine extent of condition.
- [5] If sample collection is required, have the DEP/WMC contact the waste management organization and complete a Request for Analysis (RFA), <http://int.lanl.gov/environment/waste/sampling.shtml>, to schedule sampling. Specify the analytical suite and turn-around time needed for the sample in the RFA.
- [6] Document the following information regarding the spill or unplanned release in the Logbook:
- Timeline of spill/unplanned release response as it occurs.
 - Nature and extent of the spill/unplanned release (i.e., inside a building, on asphalt, nearest watercourse/drainage area, proximity to SWMU/AOC and/or outfalls).
 - Steps taken to contain the spill.
 - Samples collected, if any. Include number, type, location, and analysis.
 - Spill and control equipment used to remediate the spill.
 - Corrective actions completed and the amount of waste material.

4.2 Non-Emergency Spill or Unplanned Release

The Spill Investigator will respond to non-emergency spills/unplanned releases when notified. Non-emergency spills/unplanned releases typically include potable water leaks; sanitary wastewater leaks, spills, overflows; and small volumes of known chemicals (e.g., hydraulic fluid leaks, vehicle oil leaks). Non-Emergency Spills/Unplanned Releases are typically handled by a designated FOD representative (i.e., operations, maintenance), DEP, or WMC assigned to the area. The following provides the steps a Spill Investigator will follow when responding a non-emergency spill/unplanned release.

Spill Investigator/On Call

- [1] Coordinate with the FOD designee and/or waste management coordinator to visit the location of the spill/unplanned release.
- [2] Travel to the location of the spill/unplanned release.

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CAUTION

The Spill Investigator may respond to the spill or unplanned release and determine whether the containment and remediation is beyond the capability of the designated FOD representative, DEP, and/or WMC to respond. The EOC should be contacted if additional technical expertise or materials are needed to remediate the release.

- [3] Assess and evaluate the nature and extent of the release as follows:
 - [a] If the spill/release is a small volume or known material (e.g., sanitary waste, potable water, small hydraulic leak), proceed to step 4.
 - [b] If the spill/release is an unknown (e.g., leaking fluid from a metal recycling bin, drum, battery, or other container), stop work and notify the EOC at 667-2400.
 - [c] If the spill/release is a hazardous material or large volume of petroleum product (i.e., battery acid, chemical tank, fuel, hydraulic fluid, oil), stop work and notify the EOC at 667-2400.
 - [d] If the spill/release appears to be beyond the capability of the designated FOD representative, DEP, and/or WMC to contain and/or remediate, the Spill Investigator shall stop work and notify the EOC at 667-2400 to obtain the appropriate resources.

- [4] Provide guidance to the FOD designee and/or waste management coordinator regarding the containment and/or cleanup of the release. Examples of the types of guidance provided include the following:
 - [a] Provide the final inspection of the site to ensure that corrective actions were adequate and are complete.
 - [b] Recommend corrective actions.
 - [c] Inspect the site to ensure that the extent of the spill/unplanned release is adequately defined.
 - [d] Recommend how to stabilize the site for further remediation (i.e., secure the site from storm water).
 - [e] Identify watercourse boundaries near the spill/unplanned release.
 - [f] Determine if samples need to be collected.
 - [g] Recommend sample types and analysis.
 - [h] Recommend sample locations and the number of samples to determine extent of condition.

- [5] If sample collection is required, have the DEP/WMC contact WM-SVS and complete a RFA, <http://int.lanl.gov/environment/waste/sampling.shtml>, to schedule sampling. Specify the analytical suite and turn-around time needed for the sample in the RFA.

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- [6] Document the following information regarding the spill or unplanned release in the Logbook:
- Timeline of spill/unplanned release response as it occurs.
 - Nature and extent of the spill/unplanned release (i.e., inside a building, on asphalt, nearest watercourse/drainage area, proximity to SWMU/AOC and/or outfalls).
 - Steps taken to contain the spill.
 - Samples collected, if any. Include number, type, location, and analysis.
 - Spill and control equipment used to remediate the spill.
 - Corrective actions completed and the amount of waste material.
- [7] Coordinate and document all required follow up corrective actions with the FOD designees, DEP, and/or WMC.
- [8] Determine the applicable internal and external reporting requirements as outlined in Section 4.3.

4.3 Reporting Spills and/or Unplanned Releases

This section describes how to determine whether an unplanned release, spill, or other event needs to be reported under environmental regulations and how to fulfill all immediate reporting requirements (within the first 24-hours).

4.3.1 Immediate Notification

Spill Investigator/On Call Spill Responder

- [1] Identify which of the following internal stakeholders that should receive a report of the spill/unplanned release:
- EPC-CP Group and Division Management
 - Compliance Subject Matter Experts (SME). This includes Resource Conservation and Recovery Act, National Pollution Discharge Elimination System, Storm water, Groundwater, and/or Waste Management compliance personnel that potentially have permit specific reporting requirements.
 - FOD where the spill/unplanned release occurred.
 - Designated FOD Representative (i.e., DEP, Operations, and Maintenance).

CAUTION

Spills/unplanned releases may have EXTERNAL reporting requirements that must be completed within 15 minutes or 24-hours of discovery based upon EPC-CP-QP-0903, Environmental Reporting Requirements for Releases.

| | | |
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- [2] Identify the verbal and written EXTERNAL reporting requirements in accordance with [EPC-CP-QP-0903, Environmental Reporting Requirements for Releases](#).

4.3.2 Non-Reportable Spills/Unplanned Releases

Spill Investigator/On Call Spill Responder

- [1] Notify the internal stakeholders (i.e., EPC-CP, SME, FOD, and designated FOD Representative) by phone and/or email (Attachment 1). Include the following pertinent facts as recorded in the logbook:
- Date, Time, Location of the release.
 - Quantity and type of material.
 - Status of corrective actions.
- [2] Document the spill/unplanned release in the spills database.
- [3] Document spills/unplanned releases that are NOT reportable to an external regulatory agency on EPC-CP-QP-1007-Form 1, Unplanned Release Report (Attachment 2).
- [a] If the Form 1 is completed by a DEP or other designated FOD representative, request a copy of the signed form.
- [b] Attach completed EPC-CP-QP-1007-Form 1 to the spill database record.
- [4] Submit copies of the accumulated EPC-CP-QP-1007-Form 1's, (annually), to records in accordance with [ADESH-AP-006, Records Management](#).

4.3.3 Reportable Spills/Unplanned Releases

Spill Investigator/On Call Spill Responder

- [1] Notify the internal stakeholders (i.e., EPC-CP, SME, FOD, and designated FOD Representative) by phone and/or email (Attachment 1). Include the following pertinent facts as recorded in the logbook:
- [a] Date, Time, Location of the release.
- [b] Quantity and type of material.
- [c] Status of corrective actions.
- [2] Notify National Nuclear Safety Administration (NNSA)/Los Alamos Site Office (LASO).
- [3] Perform the required EXTERNAL verbal notifications to the appropriate regulatory agencies (i.e., New Mexico Environment Department [NMED], Environmental Protection Agency [EPA]) in accordance with [EPC-CP-QP-0903, Environmental Reporting Requirements for Releases](#).

| | | |
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- [4] Document spills/unplanned release on EPC-CP-QP-1007-Form 2, *7/15 Day Release Report* (Attachment 3).
 - [a] Ensure that the EPC-CP-QP-1007-Form 2 is reviewed and assigned an LA-UR document release number.
 - [b] Attach the final EPC-CP-QP-1007-Form 2 to the spill database record.
 - [c] Submit the final EPC-CP-QP-1007-Form 2 as an e-mail attachment to the appropriate regulatory agency.
 - [d] Submit a copy of the EPC-CP-QP-1007-Form 2 to the internal stakeholders and NNSA/LASO.
- [5] Document the spill/unplanned release in the spills database.
- [6] Attach completed EPC-CP-QP-1007-Form 2 to the spill data base record.
- [7] Electronically file a copy of the EPC-CP-QP-1007-Form 2 in Spills folder located at ENV(\\dcstorage.lanl.gov):\CP\WQ\WQCC COMP PROG.
- [8] Submit copies of the accumulated EPC-CP-QP-1007-Form 2's, (annually), to records in accordance with [ADESH-AP-006, Records Management](#).

5.0 TRAINING

All EPC-CP personnel that execute the activities specified in this procedure must meet the minimum qualification and training requirements for their position as identified in [EPC-CP-PIP-1001, New Mexico Water Quality Control Commission \(WQCC\) Program Implementation Plan \(PIP\)](#). This will include "self-study" (required reading) for this procedure as assigned and documented in accordance with [ADESH-TPP-301, ADESH Training Program Plan \(TPP\)](#).

6.0 RECORDS

EPC-CP is the Office of Record for this document and must be maintained in accordance with [PD1020, Document Control and Records Management](#) and [ADESH-AP-006, Records Management Plan](#). Records generated by this document will be submitted to the Records Management designated point of contact or document manager for document management. The following records are generated by this procedure.

| Record Title | QA Record | Non-QA Record |
|---|-------------------------------------|-------------------------------------|
| EPC-CP-QP-1007 Form 1, <i>EPC-CP Unplanned Release Report</i> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| EPC-CP-QP-1007 Form 2, <i>EPC-CP 7/15 Day Release Report</i> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Correspondence (i.e., E-mail Notifications to LANL Management, DOE, and other EPC-CP permit subject matter experts) | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

| | | |
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| | | |
|--|-------------------------------------|--------------------------|
| Correspondence - E-mail Submittals of 7/15 Day Release Reports to NMED | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Logbook | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

7.0 DEFINITIONS AND ACRONYMS

7.1 Definitions

See LANL [Definition of Terms](#).

Release – Any unpermitted spilling, leaking, pumping, pouring, emitting, emptying, discharging, injecting, escaping, leaching, dumping, or disposing of contaminants into the environment, excluding: (1) emissions from the engine exhaust of any vehicle, (2) certain releases of source, byproduct, or special nuclear material from a nuclear incident, or (3) normal application of fertilizer.

7.2 Acronyms

See LANL [Acronym Master List](#).

| | |
|------------------------|---|
| AOC | Area of Concern |
| DEP | Deployed Environmental Professional |
| EMD-EO | Emergency Management Division -Emergency Operations Group |
| EOC | Emergency Operations Center |
| EPC-CP | Environmental Protection and Compliance Group |
| FOD | Facility Operations Directorate |
| LAC | Los Alamos County |
| LANL or the Laboratory | Los Alamos National Laboratory |
| LASO | Los Alamos Site Office (LASO). |
| N3B | Newport News Nuclear BWXT Los Alamos |
| NMED | New Mexico Environment Department |
| NNSA | National Nuclear Safety Administration |
| PIP | Program Implementation Plan |
| PPE | Personal Protective Equipment |
| SWMU | Solid Waste Management Unit |
| TPP | Training Program Plan |
| WMC | Waste Management Coordinator |
| WQCC | Water Quality Control Commission |
| SME | Subject Matter Expert |

| | | |
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8.0 REFERENCES

ADESH-AP-006, Records Management Plan

ADESH-TPP-301, ADESH Training Program Plan (TPP)

EPC-CP-PIP-1001, New Mexico Water Quality Control Commission (WQCC) Program Implementation Plan

EPC-CP-QP-0903, Environmental Reporting Requirements for Releases

EPC-DO-QP-100, General Field Safety

P217, Controlled Portable Electronic Devices

9.0 ATTACHMENTS

Attachment 1: Release Notification Phone List

Attachment 2: EPC-CP-QP-1007-Form 1, *Unplanned Release Report*

Attachment 3: EPC-CP-QP-1007-Form 2, *7/15 Day Release Report*

| | | |
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Attachment 1: Release Notification Phone List

Los Alamos National Laboratory

- | | |
|---|----------------|
| (1) Emergency Operations Support Center | (505) 667-2400 |
| (2) EPC-ES Group Office | (505) 665-8855 |
| (3) EPC-CP Group Office | (505) 667-0666 |
| (4) EPC-DO | (505) 667-2211 |
| (5) EPC-CP Spills Pager | (505) 664-7722 |

New Mexico Environment Department

- | | |
|--|------------------|
| (1) NMED Emergency Hotline (24 hours a day) | (505) 827-9329 |
| (2) NMED Non-Emergency Hotline (Voicemail; 24 hours a day) | 1 (866) 428-6535 |
| (3) NMED Surface Water Quality Bureau | (505) 827-0187 |
| Jennifer Foote | (505) 827-0596 |
| (4) NMED Ground Water Quality Bureau | (505) 827-2900 |
| Gerald (Jake) Knutson | (505) 827-2996 |
| Steve Pullen | (505) 827-2962 |
| (5) NMED Hazardous Waste Bureau | (505) 476-6000 |
| Stephen Connolly | (505) 476-6025 |

U.S Environmental Protection Agency

- | | |
|---|------------------|
| (1) US EPA Region 6 Spill Reporting (During business hours) | 1 (800) 887-6063 |
| Emergencies- Contact the NRC | 1 (800) 424-8802 |
| (2) Nancy Williams | 1 (214) 665-7179 |

Los Alamos Fire Department

(505) 662-8301

U.S. Department of Energy

- | | |
|------------------|----------------|
| (1) Karen Armijo | (505) 665-7314 |
|------------------|----------------|

Newport News Nuclear BWXT Los Alamos (N3B)

- | | |
|---------------------------|----------------|
| (1) N3B Operations Center | (505) 551-2954 |
|---------------------------|----------------|

New Mexico State Police

- | | |
|-------------------------|----------------|
| New Mexico State Police | (505) 827-9604 |
|-------------------------|----------------|

EPC-CP On-Call Environmental Representative for Release Assessment and Notifications to External Agencies

- | | |
|-------------------|-------------------------|
| (1) Terrill Lemke | (505) 665-2397 (Office) |
| | (505) 699-0725 (Cell) |
| (2) Steve Pearson | (505) 667-3005 (Office) |
| | (505) 699-3684 (Cell) |
| (3) Mike Saladen | (505) 665-6085 (Office) |
| | (505) 699-1284 (Cell) |
| (4) Tim Zimmerly | (505) 664-0105 (Office) |
| | (505) 699-7621 (Cell) |

Attachment 2: Unplanned Release Report, EPC-CP-QP-1007-Form 1

| Los Alamos National Laboratory Environmental Compliance Program (EPC-CP) Unplanned Release Report | | |
|--|--|--|
| Form Completed By: | | Telephone: |
| Spill Owner Details (Specify): | | Group: |
| <input type="checkbox"/> TRIAD, LLC | <input type="checkbox"/> Subcontractor: _____ | <input type="checkbox"/> Other: _____ |
| Date of Spill/Date Spill Discovered: | | |
| Location: | | |
| Material Spilled: | | |
| <input type="checkbox"/> Hydraulic Fluid | <input type="checkbox"/> Anti-freeze/coolant | <input type="checkbox"/> Refrigerant Oil |
| <input type="checkbox"/> Potable Water | <input type="checkbox"/> Steam Condensate | <input type="checkbox"/> Gasoline |
| <input type="checkbox"/> Diesel | <input type="checkbox"/> Lubricants/Oils | <input type="checkbox"/> Other: _____ |
| Volume Spilled: | Waste Volume Generated: | |
| Source of Spill: | <input type="checkbox"/> Potable Water Line | <input type="checkbox"/> Radiator |
| Vehicle ID: | <input type="checkbox"/> Fire Suppression System | <input type="checkbox"/> Condensate Line |
| Equipment ID: | <input type="checkbox"/> Fuel Tank | <input type="checkbox"/> Other: _____ |
| Describe the spill response in chronological order. Include response personnel, steps taken to contain the spill, and steps/spill control equipment used to clean it up. Please indicate if corrective actions have been completed and describe actions taken to prevent spill recurrence: | | |
| | | |
| Date Corrective Actions Completed: | | |
| Did the spill enter or impact any of the following? (Check as many as apply) | <input type="checkbox"/> Floor Drain, if so please indicate affected facility _____ | |
| <input type="checkbox"/> RCRA Treatment Storage Disposal Facility | <input type="checkbox"/> Watercourse/drainage area, if so please indicate _____ | |
| <input type="checkbox"/> RCRA Satellite Accumulation Area | <input type="checkbox"/> Solid Waste Management Unit/Area of Concern, if so please indicate _____ | |
| <input type="checkbox"/> RCRA <90 Day Storage Area | <input type="checkbox"/> None | |
| <input type="checkbox"/> NPDES MSGP Facility | | |
| Did the spill occur inside or outside a building? <input type="checkbox"/> Inside <input type="checkbox"/> Outside | | |
| Did the spill occur on: (Check as many as apply) | <input type="checkbox"/> Concrete | <input type="checkbox"/> Asphalt |
| <input type="checkbox"/> Carpeted Floor | <input type="checkbox"/> Graveled/Rocky Area | <input type="checkbox"/> Soil/Vegetated Area |
| <input type="checkbox"/> Tile | <input type="checkbox"/> Other: _____ | |
| <input type="checkbox"/> Wooden Floor/Deck | | |
| Samples Collected: | If samples were collected, indicate analytical suite: | |
| <input type="checkbox"/> None | <input type="checkbox"/> Soil | |
| <input type="checkbox"/> Water | <input type="checkbox"/> Air | |
| <input type="checkbox"/> Other: _____ | | |
| Certification | | |
| I certify that I am knowledgeable about the information on this form. The information, to my knowledge, is true, accurate, and complete. | | |
| Name of Certifying Official: | Organization: | Date: |
| Certification: | | |
| Completed by EPC-CP Personnel | | <input type="checkbox"/> Non-Reportable |
| Date Received: | Severity Index: | <input type="checkbox"/> Reportable |
| Causal Analysis: | | |
| EPC-CP-QP-1007 Form 1 | Return Completed Form to EPC-CP (spears@lanl.gov) | 11/2019 |

Attachment 3: 7/15 Day Release Report, EPC-CP-QP-1007-Form 2

RELEASE / DISCHARGE NOTIFICATION

LOS ALAMOS NATIONAL LABORATORY LA-UR-

Calendar Year

2020

Permit Number: NM0028355

| | | |
|--|---|----------------------|
| NPDES or Operational Spill/Release <input checked="" type="checkbox"/> | } Indicate with "X" in appropriate box. | Release ID Number: |
| ER Spill/Release <input type="checkbox"/> | | <input type="text"/> |
| Other Spill/Release <input type="checkbox"/> | | |

Responsible Facility/User Group:

Contact Person: Pager #:

Phone #: Cell Phone #:

Release/Discharge Location:

TA:

Building:

If the release/discharge is associated with a NPDES Outfall, Potential Release Site (PRS) or Solid Waste Management Unit (SWMU), indicate the site/unit number and its relationship to the release/discharge:

NPDES Outfall: PRS: SWMU: PRS/SWMU Number:

Indicate with "X" in appropriate box(es).

Relationship of the Discharge to a SWMU or PRS:

| | | |
|--|--|---|
| Discharge Occurred: <input type="text"/> | Discharge Discovered: <input type="text"/> | Discharge Stopped: <input type="text"/> |
| Date & Time | Date & Time | Date & Time |
| Cleanup Started: <input type="text"/> | Cleanup Completed: <input type="text"/> | |
| Date & Time | Date & Time | |

Material(s) Released / Discharged:

Release/Discharge Mitigation Method:

Weather Conditions:

Duration of Release/ Discharge, in HOURS: Est. Volume released, in gallons: Est. Volume Recovered, in gallons:

Corrective Actions Taken (ie, type of BMPs, etc):

Nearest Watercourse (Canyon Name)

If the release/discharge reached a watercourse, describe the estimated surface area affected, presence of release/discharge now in the watercourse, and the media the release/discharge was detected in:

Depth to Groundwater, in FT, if known:

Distance to Nearest Drinking Water Well, in FT, if known: Well ID#

24-HOUR RELEASE / DISCHARGE NOTIFICATIONS

| | Contact Person | Phone | Fax | Date & Time (or Comment) | |
|--------------|----------------------|----------------------|----------------------|--------------------------|----------------------|
| EPA: | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> |
| NMED/SWQB: | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> |
| NMED/GWQB: | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> |
| NMED/HRMB: | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> |
| NMED/DOE-OB: | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> |
| EPC-CP: | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> |
| DOE: | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> |
| OTHER: | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> |
| OTHER: | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> |

Comments:

Form Completed By:

| | | |
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7 DAY RELEASE / DISCHARGE ACTIONS

7 Day Notice 7 Day Notice Date: 7 Day Notice By:

Mark "X" when done.

Comments:

15 DAY RELEASE / DISCHARGE ACTIONS

15 day Follow-up Due: 15-day Follow-Up By:

Comments:

NMED 30 DAY APPROVAL / DISAPPROVAL

NMED 30 Day Response Date:

Comments:

Peter Maggiore, Acting Assistant Manager
National Security Missions
Los Alamos Field Office
3747 West Jemez Road MS-A316
Los Alamos, New Mexico 87544
(505) 606-0397

Jennifer Payne, EPC Division Director
Triad National Security, LLC.
Los Alamos National Laboratory
P.O. Box 1663, MS K404
Los Alamos, New Mexico 87544
(505) 667-2211

**ATTACHMENT 23: EPC-CP-QP-2110, MSGP STORMWATER POLLUTION
PREVENTION PLAN PREPARATION AND MAINTENANCE**

| | | |
|----------------------------|------------------------------|---|
| EPC-CP-QP-2110 | Revision: 0 |  |
| Effective Date: 01/07/2020 | Next Review Date: 01/07/2023 | |

**Environment, Safety, Health, Quality, Safeguards, and Security Directorate
Environment Protection and Compliance – Compliance Programs Group
Quality Procedure**

**MSGP Stormwater Pollution Prevention Plan Preparation
and Maintenance**

Hazard Grading: Low Moderate High/Complex

Usage Level: Reference UET Mixed: UET Sections: _____

Status: New Major Revision Minor Revision

Review w/No Changes Other: _____

Safety Basis: N/A USQ USI Number: _____

Document Author/Subject Matter Expert:

| | | | |
|------------------|---------------|-------------------|----------|
| Name: | Organization: | Signature: | Date: |
| Holly L. Wheeler | EPC-CP | Signature on File | 1-6-2020 |

Derivative Classifier: Unclassified or _____

| | | | |
|------------------|---------------|-------------------|----------|
| Name: | Organization: | Signature: | Date: |
| Steven E. Wolfel | EPC-CP | Signature on File | 1-6-2020 |

Approval Signatures:

| | | | |
|-------------------------------------|---------------|-------------------|----------|
| EPC-CP Reviewer: | Organization: | Signature: | Date: |
| Terrill W. Lemke, Team Leader | EPC-CP | Signature on File | 1-7-2020 |
| EPC-CP RLM: | Organization: | Signature: | Date: |
| Taunia Van Valkenburg, Group Leader | EPC-CP | Signature on File | 1-7-2020 |

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To document a required read, Login to [UTrain](#), and go to the Advanced Search.*

| | | |
|--|--------------------|----------------------------|
| MSGP Stormwater Pollution Prevention Plan Preparation and Maintenance | No: EPC-CP-QP-2110 | Page 2 of 72 |
| | Revision: 0 | Effective Date: 01/07/2020 |

REVISION HISTORY

| Document Number and Revision <i>[Include revision number, beginning with Revision 0]</i> | Effective Date <i>[Document Control Coordinator inserts effective date]</i> | Description of Changes <i>[List specific changes made since the previous revision]</i> |
|--|---|--|
| EPC-CP-QP-2110, Rev. 0 | 01/07/2020 | New document |

| | | |
|--|--------------------|----------------------------|
| MSGP Stormwater Pollution Prevention Plan Preparation and Maintenance | No: EPC-CP-QP-2110 | Page 3 of 72 |
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1.0 INTRODUCTION

The Environmental Protection Agency (EPA) National Pollutant Discharge Elimination System (NPDES) Multi-Sector General Permit (MSGP), also referred to as the Permit, contains specific requirements for industrial activities of Los Alamos National Laboratory (LANL) covered by the permit. One requirement is the preparation, maintenance, and routine revision of a Stormwater Pollution Prevention Plan (SWPPP).

1.1 Purpose

Active MSGP facilities must be included in a SWPPP. The SWPPP is intended to document the selection, design, and installation of control measures to meet permit effluent limits. Additional documentation required by the Permit is to be kept with the SWPPP (including inspection maintenance, monitoring, and corrective action) and is intended to document the implementation of permit requirements.

1.2 Scope

This procedure contains information and specific steps for preparing a SWPPP, and identifying and documenting conditions in order to meet Permit requirements. Part 5 of the Permit contains specific requirements for developing, maintaining, and revising a SWPPP for facilities with stormwater discharge associated with industrial activities permitted under an MSGP. Part 5.5 describes the additional documentation required to be kept with the SWPPP.

1.3 Applicability

This procedure applies to Environmental Protection and Compliance-Compliance Programs (EPC-CP) technical staff, Deployed Environmental Professionals (DEPs), and subcontractor personnel (as applicable) who develop and maintain SWPPPs at MSGP regulated LANL facilities operated by Triad, LLC.

2.0 PRECAUTIONS AND LIMITATIONS

The hazard rating for the activities described in this procedure is **LOW** and does not require an Integrated Work Document.

3.0 PREPARING AN MSGP STORMWATER POLLUTION PREVENTION PLAN

Part 5 of the Permit contains the specific requirements for developing, maintaining, and revising a SWPPP. At a minimum, the SWPPP must contain the following elements:

- Stormwater pollution prevention team (Stormwater PPT);
- Site description (including a site map);
- Summary of potential pollutant sources;
- Description of control measures;

| | | |
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| MSGP Stormwater Pollution Prevention Plan Preparation and Maintenance | No: EPC-CP-QP-2110 | Page 5 of 72 |
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- Schedules and procedures;
- Documentation to support eligibility considerations under other federal laws; and
- Signature requirements.

Where the SWPPP refers to procedures in other facility documents, such as a Spill Prevention, Control and Countermeasure Plan or an Environmental Management System, copies of the relevant portions of those documents must be kept with the SWPPP.

The template provided in Attachment 1, EPC-CP-QP-2110 R0 Form 1, *MSGP SWPPP Template Example* contains the elements required in a LANL MSGP SWPPP. Contact the MSGP Program Lead for questions regarding content.

3.1 Gathering Information for the SWPPP

SWPPP Preparer

- [1] Contact the MSGP Program Lead for a copy of the most current SWPPP template.
- [2] Obtain a copy of the previous year's SWPPP for reference (if one is available).
- [3] Review the SWPPP template.
 - [a] Identify information that will need to be included in the SWPPP (e.g., MSGP sector, operational areas, Pollution Prevention Team member names, etc.).
 - [b] Identify documents that will need to be attached to the SWPPP (e.g., certifications, memorandums, maps, data summaries, endangered species reports, etc.).
- [4] Identify documents and/or reports that are provided by EPC-CP.
 - [a] Contact the MSGP Program Lead with a request for needed information.
- [5] Obtain maps as specified in the SWPPP template.
 - [a] Request a new map or update to existing map from the MSGP Program Lead.
 - [b] Provide a draft or map markup with information as required in the Permit.

3.2 Preparing the SWPPP

SWPPP Preparer

- [1] Use a copy of the most current SWPPP template.
- [2] Add information to the relevant sections.
- [3] Text highlighted in yellow indicate areas to be replaced with facility specific information.

| | | |
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- [a] IF text is part of an instruction (e.g., **Insert site description text here.**)
THEN delete the entire line and replace with the appropriate information.
- [b] IF text is embedded as part of the line,
THEN replace just the yellow highlighted text with appropriate information (e.g., delete **Sector XX-(Insert Sector Title)** and replace with *Sector P – Land Transportation & Warehousing*).
- [4] Delete attachments that are not applicable to the active facility specific SWPPP.
- [5] Attach other documentation (e.g., Spill Prevention, Control and Countermeasure Plan, Environmental Management System, copies of relevant portions of documents) as necessary.
- [6] Send the draft SWPPP to the EPC-CP MSGP Program Lead and request a review.
NOTE 1: The EPC-CP MSGP Program Lead may delegate the review to personnel in the Storm Water Permitting/Compliance Team.

MSGP Program Lead or Designee

- [7] Review the SWPPP to ensure information required by the Permit is included.
 - [a] Encourage the use of the *MSGP SWPPP Review Guidance Checklist* as a best management practice to cross-check SWPPP content with the Permit. See checklist example in Attachment 2.
 - [b] Provide comments to the SWPPP Preparer.

SWPPP Preparer

- [8] The Preparer must resolve review comments with the MSGP Program Lead.
- [9] Obtain the signature of a duly authorized representative (refer to Appendix B, Subsection 11 of the Permit) on the certification statements associated with the SWPPP and attachments (refer to Attachment 9 of the *MSGP SWPPP Template Example*).
NOTE 2: The Review & Approval System for Scientific and Technical Information (RASSTI) system requires upload of only PDF documents. It is highly recommended that all final certifications obtained contain a written signature rather than electronic signature. The RASSTI system adds a cover page to the document containing the LA-UR number, which obviates all electronic signatures due to the document change.

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4.0 MAINTAINING THE MSGP SWPPP

4.1 Availability of the MSGP SWPPP

A complete copy of the current SWPPP is required to be kept at the active facility in an accessible format. The SWPPP must be immediately available to facility employees, EPA, and other entities identified in the Permit. The SWPPP must also be made available to the public. LANL meets this requirement by posting SWPPPs to the Public Reading Room internet web page. Refer to Part 5.4 of the Permit for more information.

SWPPP Preparer

- [1] Submit the final certified SWPPP in PDF format to the RASSTI system at *rassti.lanl.gov*.
 - [a] The SWPPP must be identified as Los Alamos Unlimited Release, or LA-UR, to be posted to the Public Reading Room.
 - [b] Identify a derivative classifier to review the document.
 - [c] Identify the document for a **full classification review**. The Designated Unclassified Subject Area, or DUSA, system may **NOT** be used.
 - [d] Identify a line manager for an approval signature.
 - [e] Identify the document for release to Public Reading Room.
- [2] Add the cover page containing the LA-UR number generated by the RASSTI system to the SWPPP.
- [3] Contact the RASSTI staff for questions and assistance using this system.

4.2 Additional Documentation Requirements

The Permit requires additional documentation to be kept with the SWPPP that together keep records complete and up-to-date, and demonstrate full compliance with the conditions of the Permit. Some documents may be generated when a SWPPP is first written (e.g., copy of the permit). Other documents may be generated on an ongoing basis throughout a calendar year (e.g., inspections). Refer to Part 5.5 of the Permit for additional information.

SWPPP Preparer or Owner

- [1] IF any of the following documents are generated, THEN add the document to the facility SWPPP as soon as the document is generated and finalized (i.e., all signatures have been obtained).
 - A copy of the Notice of Intent to Discharge (NOI) submitted to EPA and correspondence exchanged between Triad, LLC and EPA specific to coverage under the permit;

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NOTE: There may be several modifications to the NOI during a permit term. Ensure you coordinate with the MSGP Program Lead to confirm all modifications are included in the SWPPP.

- A copy of the acknowledgement received from the EPA assigning the NPDES permit identification number
- A copy of the permit;
- Documentation of maintenance and repairs of control measures (refer to Part 2.1.2.3 of the Permit);
- All inspections, including Routine Facility Inspections and Quarterly Visual Assessments (refer to Parts 3.1.2 and 3.2.2 of the Permit);
- Description of any deviations from the schedule for visual assessments and/or monitoring, and the reason for the deviations (refer to Parts 3.2.3 and 6.1.5 of the Permit);
- Corrective action documentation (refer to Part 4.4 of the Permit);
- Documentation of any benchmark exceedances and the type of response to the exceedance employed;
- Documentation to support any determination that pollutants of concern are not expected to be present above natural background levels if stormwater is discharged directly to impaired waters; and
- Documentation to support any claim that the facility has changed its status from active to inactive and unstaffed.

5.0 REVISING THE MSGP SWPPP

The Permit specifies conditions that trigger a SWPPP review to ensure numeric and non-numeric effluent limits are met and to determine if modifications to stormwater controls are necessary (refer to Parts 4.1 and 4.2 of the Permit).

The SWPPP must also be modified based on corrective actions and deadlines required under Part 4.3 of the Permit, and documented in accordance with Part 4.4 of the Permit.

At a minimum, the SWPPP must be reviewed and revised once per calendar year, and no later than 45 days after conducting the final routine facility inspection for the year.

SWPPP Preparer or Owner

- [1] The Stormwater PPT will review the SWPPP for the following at a minimum.
- The selection, design, installation, and implementation of control measures.
 - Sources of pollution.

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- Spill and leak procedures.
 - Non-stormwater discharges (as applicable).
- [2] IF any of the following conditions occur or are detected during an inspection, monitoring or other means,
THEN the Stormwater PPT must **immediately** review the SWPPP as specified above.
- Unauthorized release or discharge (e.g., spill, leak, discharge of non-stormwater not authorized by the permit);
 - A discharge violates a numeric effluent limit (refer to Table 2-1 of the Permit);
 - Controls measures are not stringent enough for discharge to meet applicable water quality standards or the non-numeric effluent limits in the permit;
 - A required control measure was never installed, installed incorrectly, or not in accordance with Parts 2 and/or 8, or is not properly operated or maintained;
 - Whenever a visual assessment shows evidence of stormwater pollution (e.g., foam, oil sheen, etc.).
 - Construction or a change in design, operation, or maintenance at the facility that significantly changes the nature of pollutants discharged in stormwater from the facility , or significantly increases the quantity of pollutants discharged;
- NOTE 1:** Changes include building removal or replacement, BMP removal or installation, outfall removal or creating a new outfall, changing drainage pathways or the path of stormwater flow.
- The average of four quarterly sampling results exceeds an applicable benchmark.
- NOTE 2:** If less than four benchmark samples have been taken, but the results are such that an exceedance of the four quarter average is mathematically certain this is considered a benchmark exceedance.
- [3] The Stormwater PPT must determine the modification(s) to be made to implement or maintain control measures and/or take corrective action.
- [4] The revision/modification(s) will be implemented at the facility.
- [5] The SWPPP will be revised/modified within 14 days of completion of a modification or corrective action to reflect the modification(s) made.
- [6] Obtain a signature and date from a duly authorized representative on all SWPPP revisions/modifications in accordance with Appendix B, Subsection 11 of the Permit.

6.0 TRAINING

The following personnel require training before implementing this procedure.

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- Deployed Environment, Safety, and Health Group and Team Leaders
- EPC-CP MSGP stormwater compliance personnel
- DEPs
- Other LANL or subcontract personnel identified as being required to prepare and maintain MSGP SWPPPs as part of their job duties

All EPC-CP personnel that execute the activities specified in this procedure must meet the minimum qualification and training requirements for their position as identified EPC-CP-PIP-2101, NPDES Multi-Sector General Permit Program. This will include “self-study” (required reading) for this procedure as assigned and documented in accordance with ADOSH-TPP-301, *ADESH Training Program Plan*. Other participating LANL groups may require training documentation pursuant to local procedures.

Contract personnel that execute the activities specified in this procedure will be qualified and trained as required by the Exhibit D and Exhibit F. In addition, contract personnel will be required to complete “self-study” (required reading) of this procedure.

7.0 RECORDS

MSGP SWPPPs are signed and certified by a duly authorized representative of the individual facilities. These completed documents are maintained at the permitted facility, managed by the facility’s Records Management designated point-of-contact or document manager, and posted to the LANL public reading room. The MSGP team may retain a copy for reference purposes.

Below, are records generated as a result of implementing this procedure. Records generated are identified by title and type.

| Record Title | QA Record | Non-QA Record |
|--------------------------------------|-------------------------------------|--------------------------|
| Stormwater Pollution Prevention Plan | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| MSGP SWPPP Review Guidance Checklist | N/A | N/A |

8.0 DEFINITIONS AND ACRONYMS

8.1 Definitions

See LANL [Definition of Terms](#).

Best Management Practice (BMP) – Schedules of activities, prohibitions of practices, maintenance procedures, and other management practices to prevent or reduce the pollution of “waters of the United States.” BMPs also include treatment requirements, operating procedures, and practices to control plant site runoff, spillage or leaks, sludge or waste disposal, or drainage from raw material storage (*40 CFR Part 122.2*).

Control Measure – Any BMP or other method (including effluent limitations) used to prevent or reduce the discharge of pollutants to waters of the United States.

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8.2 Acronyms

See LANL [Acronym Master List](#).

| | |
|------------------------|---|
| EPA | Environmental Protection Agency |
| EPC-CP | Environmental Protection and Compliance-Compliance Programs |
| DEP | Deployed Environmental Professional |
| DUSA | Designated Unclassified Subject Area |
| LANL or the Laboratory | Los Alamos National Laboratory |
| LA UR | Los Alamos Unlimited Release |
| MSGP or Permit | Multi-Sector General Permit |
| NPDES | National Pollutant Discharge Elimination System |
| NOI | Notice of Intent to Discharge |
| SWPPP | Stormwater Pollution Prevention Plan |
| PDF | Portable Document Format |
| PPT | Pollution Prevention Team |

9.0 REFERENCES

United States Environmental Protection Agency (EPA) National Pollutant Discharge Elimination System (NPDES) Multi-Sector General Permit for Stormwater Discharges Associated With Industrial Activity (MSGP)

Federal Register, Final National Pollutant Discharge Elimination System (NPDES) General Permit for Stormwater Discharges from Industrial Activities. Federal Register: June 16, 2015, Volume 80, Number 115

Clean Water Act, Title 33 U.S.C. 1251

10.0 ATTACHMENTS

Attachment 1: EPC-CP-QP-2110 R0 Form 1, *MSGP SWPPP Template* Example

Attachment 2: *MSGP SWPPP Review Guidance Checklist* Example

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MSGP Stormwater Pollution Prevention Plan

Insert Facility Name

Triad National Security, LLC
Los Alamos National Laboratory

XX/XX/XXXX

Revision X

EXAMPLE

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Insert Name of Facility
STORMWATER POLLUTION PREVENTION PLAN

PREFACE

This Stormwater Pollution Prevention Plan (SWPPP) was developed in accordance with the provisions of the Clean Water Act (33 U.S.C. §§1251 et seq., as amended), and the *United States Environmental Protection Agency (EPA) National Pollutant Discharge Elimination System (NPDES) Multi-Sector General Permit for Stormwater Discharges Associated with Industrial Activity (MSGP)* (U.S. EPA, June 2015) issued by EPA. The SWPPP uses the industry specific permit requirements for **Sector XX-(Insert Sector Title)** as a guide. The applicable stormwater discharge permit is EPA General Permit Identification Tracking Number NMR050013 [Triad National Security, LLC (Triad)]. Click here to view contents of the [2015 Multi-Sector General Permit](#).

This SWPPP applies to discharges of stormwater from the operational areas of **(List the operational areas)** at Los Alamos National Laboratory. Los Alamos National Laboratory (also referred to as LANL or the "Laboratory") is owned by the Department of Energy (DOE), and is operated by Triad. Throughout this document, the term "facility" refers to **(Insert facility name)**. The current MSGP expires at midnight on June 4, 2020.

1.0 FACILITY DESCRIPTION

1.1 Facility Information

| | | |
|--|-----------|-----------------|
| Name of Facility: (Insert facility name e.g., TA-3-22 Power and Steam Plant) | | |
| Street: P.O. Box 1663 | | |
| City: Los Alamos | State: NM | ZIP Code: 87545 |
| County: Los Alamos | | |
| NPDES ID (i.e., permit tracking number): NMR050013 | | |
| Primary Industrial Activity SIC code, and Sector and Subsector (2015 MSGP, Appendix D and Part 8): SIC XXXX , Sector X , Subsector XX | | |
| Estimated area of industrial activity at site exposed to stormwater: XX acres | | |
| Discharge Information | | |
| Name(s) of surface water(s)/segment that receives stormwater from your facility: Sandia Canyon (Sigma Canyon to NPDES outfall 001). Note: For Roads and Grounds also add "and Mortandad Canyon (within LANL)". Note: For Asphalt Batch Plant alone, delete Sandia Canyon information and insert only "Mortandad Canyon (within LANL)." | | |
| Does this facility discharge industrial stormwater directly into any segment of an "impaired water" (see definition in 2015 MSGP, Appendix A)? <input checked="" type="checkbox"/> Yes No | | |
| Pollutants causing the impairment: (Insert pollutants: list can be found in the Triad Notice of Intent (NOI)) | | |

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|---|
| Pollutants causing the impairment (see above) that may be present in industrial stormwater discharges from this Facility: |
| Are any of your stormwater discharges subject to effluent limitation guidelines (ELGs) (2015 MSGP Table 1-1)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| If Yes, which guidelines apply? (Note: Asphalt Batch Plant is subject to ELGs) Not applicable. |

1.2 Stormwater Pollution Prevention Team (PPT)

Insert a description of the team

The specific duties of individual team members of the PPT are listed in the table below.

| Staff Names | Individual Responsibilities |
|---|--|
| Group Leader: Name Title, Organization | Responsible for the management of all environmental, safety, health, and quality programs for the yards, buildings and facilities within this Plan. This includes performing oversight and periodic walk downs to ensure implementation of the requirements of the MSGP and this SWPPP including overseeing the assigned duties of other PPT members. The Group Leader is responsible for ensuring problems noted during inspections are corrected. The Group Leader must also ensure adequate resources are obtained to ensure compliance requirements of the MSGP and this SWPPP are met. |
| Deployed Environmental Professional (DEP): Name Title, Organization | Responsible for the management of all environmental programs and issues for the yards, buildings and facilities listed within this Plan. The DEP is responsible for training, recordkeeping, and SWPPP revision. The DEP ensures documentation of inspections and other required MSGP records relative to the SWPPP are managed in accordance with the Permit and established document control procedures and that the SWPPP is kept current. The DEP provides technical and regulatory support to facility and operations personnel regarding implementation of the MSGP and this SWPPP. Lastly, the DEP conducts routine facility inspections and if necessary, visual assessments, in accordance with the Permit. Identified conditions requiring corrective actions from routine facility inspections are entered into the Environmental Protection and Compliance-Compliance Programs (EPC-CP) Corrective Action Report (CAR) database. The DEP is responsible for tracking and updating the status of corrective actions that cannot be implemented immediately. |
| Facility Operations Division (FOD) Manager: Name Title, Organization | Responsible for managing the maintenance and operation of all aspects of the yards, buildings and facilities listed within this Plan. The manager shall provide review and ensure coordination with core personnel and the PPT, as appropriate, when tenants within |

| | | |
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| | the FOD propose new processes, operations, features, or a new site that may be subject to the MSGP. |
| EPC Core: Name Title, Organization | The MSGP Program Lead is responsible for managing and administering the MSGP Program for all industrial facilities operated by Triad within Los Alamos National Laboratory. The MSGP Program Lead advises and provides guidance to facility or operations personnel on NPDES MSGP regulations/requirements. The Program Lead also acts as the institutional point of contact for all interactions with the regulatory authority (EPA) and supervises personnel implementing stormwater monitoring requirements for the facility. |
| Operations Manager(s): Name Title, Organization | Responsible for day-to-day operations at the facility. Assists the DEP and EPC with inspections; spill reporting; implementing, installing and maintaining storm water controls (also known as Best Management Practices) (BMPs); and providing documentation as requested by other team members. The Operations Manager is key to ensuring adequate communication and coordination of issues regarding implementation of the MSGP and this Plan. Operations Managers also assist the DEP/EPC with SWPPP training and/or briefings, as requested. |

1.3 Site Description

Insert text with site description. Include information on type of operation(s), industrial operating equipment (associated with the Asphalt Batch Plant and the TA-3-22 Power and Steam Plant), main structures, activities, outfalls, and substantially identical outfalls.

1.4 General Location Map

The general location map for the facility can be found in Figure A. Figure B-X (if you have more than one site map, list them all here) contains all site maps and identifies all receiving waters associated with stormwater discharges from the facility. X percent of the site flows to (Insert canyon name). The canyon at this location is a (Insert stream type e.g., perennial, ephemeral, intermittent) and eventually flows to the Rio Grande approximately X miles southeast of the site.

1.5 Site Map

The site map is provided as Figure B-X (if you have more than one site map, list them all here) and illustrates the facility's activities: including facility boundary, structures, impervious surfaces, industrial activity areas, spills, operational areas, drainage patterns, stormwater controls, monitoring locations, outfalls and nearby receiving streams.

As required by the 2015 MSGP, the following information specific to the facility is either shown on the site map or contained with additional information provided in this SWPPP.

- **Site boundaries and acreage.** The site covers approximately X acres.
- **Significant structures and impervious surfaces.** The site is X percent impervious, primarily structures and paved lots.

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- **Direction of stormwater flow and site drainage.** Direction of flow is indicated with arrows.
- **Locations of stormwater control measures.**
- **Locations of all receiving waters.** In the immediate vicinity of the facility, (Indicate if any of the waters are Impaired and, if so, whether the waters have TMDLs established for them. See paragraph below this list). Also, indicate if the receiving water includes a wetland. A map of nearby receiving waters is provided as Figure B-X.
- **Locations of all stormwater conveyances.** This includes all ditches, pipes, and swales.
- **Locations of potential pollutant sources.**
- **Locations of significant spills or leaks.**
- **Locations of all stormwater monitoring points.**
- **Locations of stormwater inlets and outfalls.** Of which each will require a unique identification code for each outfall (e.g., Outfall 005, etc.), indicating if you are treating one or more outfalls as "substantially identical" and an approximate outline of the areas draining to each outfall.
- This facility is not associated with a municipal separate storm sewer system (MS4).
- **Areas of designated critical habitat for endangered or threatened species.** There are (Insert "no areas" or a number of areas) in the direct vicinity of the facility. However, a map for threatened and endangered species within LANL property is included as Figure B-X.
- Locations of the following activities where such activities are exposed to precipitation:
 - Insert all facility activities exposed to stormwater (e.g., fueling locations; loading/unloading areas; locations used for the treatment, storage, or disposal of wastes; liquid storage tanks; processing and storage areas; machinery; location and sources of run-on to the site; transfer areas for substances in bulk; immediate access roads used or traveled by carriers of raw materials, manufactured products, waste material, or by-products used or created by the facility; and vehicle and equipment maintenance and/or cleaning areas. Only include the activity areas specific to the facility (for example, if you do not refuel within the active facility boundary, do not include "fueling locations" in this bulleted list). Use a secondary bullet list level in this section.

2.0 POTENTIAL POLLUTANT SOURCES

Industrial activities that could potentially result in releases to the environment are summarized in 2.1 below. The site map for the facility is provided in Figure B-1.

Insert text describing structures and industrial activities that could potentially result in a release to the environment. Include information on location (e.g. inside, outside), associated containment, protection (e.g., roofed areas or coverings), and other devices or practices to prevent or contain spills, prevent run-on and run-off.

2.1 Potential Pollutants Associated with Industrial Activity

List specific areas and activities that could potentially result in a release to the environment and the constituents that may be released. Include a list of any Solid Waste Management Units and Areas of Concern (also known as Consent Order Sites or Potential Release Sites) with a description of each and associated potential pollutants/contaminants.

2.2 Spills and Leaks

| | | |
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Insert information on spill and leak history at the facility, if any. Text may be in table format as shown below.

| Date | Description | Outfall(s) Affected |
|------|-------------|---------------------|
| | | |
| | | |

Insert information on areas where spills and leaks could occur at the facility. Text may be in table format as shown below.

| Specific Equipment/Industrial Activity Areas and Location | Outfall(s) Affected |
|---|---------------------|
| | |
| | |

In the event of any future spill or leak at any of the facility areas, a spill report, documenting the occurrence and the nature of the spill or leak, will be completed. The spill report will be filed promptly upon completion and documentation of the spill clean-up, and will be summarized in this section of the SWPPP. In addition, spills within MSGP facility boundaries will be entered as conditions requiring corrective action in the MSGP CAR database and will be updated as corrective action occurs, in accordance with EPC-CP-QP-022, *MSGP Corrective Actions*.

The probability of spills or releases at the facility is minimized by (Insert information on how the facility will minimize spills and leaks).

2.3 Unauthorized Non-Stormwater Discharges

Insert information describing any NPDES permitted non-stormwater discharges, unpermitted outfalls, or unauthorized discharges associated with the facility. Describe any potential sources of non-stormwater discharges (e.g., testing of fire hydrants) and where wastewater drains to. Include a reference to the "Non-Stormwater Discharge Assessment and Certification" and indicate that it is provided in Attachment 3.

2.4 Salt Storage

Insert text describing salt storage areas at the facility, if present. If none exists, state salt is not stored at the facility.

2.5 Historical Data Summary

The following tables provide monitoring data at the facility for the past X years.

Permitted Facility: (insert facility name)

Calendar Year XXXX

Contact MSGP Program Lead to obtain this information formatted for insertion.

Note: This information will be updated every year during the annual SWPPP update, to include the 3 most current years of monitoring data.

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3.0 STORMWATER CONTROL MEASURES

Control measures at the facility are designed to minimize the potential release of pollutants that could adversely affect water quality. **Insert text with stormwater control measure information.**

3.1 Non-Numeric Technology-Based Effluent Limits

Insert text with non-numeric technology-based effluent limits information. Note: This is specific to Sectors A, AA, N, O and P.

3.1.1 Minimize Exposure

Insert text describing all structural controls (structures or covers) or practices used to minimize the exposure of industrial activities to precipitation. The SWPPP must describe where the controls or practices are being implemented at the facility. Examples of exposure-minimizing control measures include: location and extent of grading, berms, curbs used to contain contaminated stormwater or divert it around areas of industrial activity, materials stored within secondary containment, location of spill cleanup kits, schedule for employee spill abatement and cleanup training, procedure or practices for storage of leaky vehicles and equipment.

3.1.2 Good Housekeeping

Good housekeeping practices specifically applicable to the prevention of stormwater contamination include the following measures: **Insert text describing any practices implemented to keep exposed areas at the facility clean. Describe where each practice is being implemented at the facility. Examples of good housekeeping control measures include how workspaces are maintained; routine inspections of heavy equipment, other equipment and waste containers; inspections of material storage areas; identifying specific personnel/positions responsible for emptying drip pans, etc. Refer to Section 4.1 of this document for specific schedules for waste and recyclable material pickup and sweeping.**

All site areas exposed to precipitation are walked down during daily operations and monthly routine facility inspections to ensure that the grounds are kept in an orderly condition. The outdoor metal storage areas are inspected to ensure all piping and metal raw material is off the ground on storage racks and covered, or stored inside buildings, sheds or transportable containers. Vehicle and forklift parking areas are inspected for leaks or spills as well as storage areas containing oil-filled equipment. The entire site, including loading areas and outfalls, are inspected for floatable debris, garbage, waste and all other potential pollutants. All dumpsters and roll-off bins are inspected to ensure they are closed.

3.1.3 Maintenance

Control measures at the facility will be kept in effective operating condition by the implementation of scheduled preventive maintenance, standard operating procedures (SOPs), engineering guidance, and manufacturer's specifications as applicable. If control measures need to be replaced or repaired to maintain compliance with the 2015 MSGP, necessary modifications will be made according to the timelines specified in the *Corrective Action and Deadlines* requirements of Section 6.0 of this SWPPP.

Deficient items identified during routine facility inspections, walk-downs, or by any other means of identification, will be documented on the routine facility inspection forms and entered into the MSGP CAR database. The condition requiring corrective action will remain open until proper maintenance or

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corrective action has been completed. CAR information, along with documentation of maintenance/repair of control measures, is in Attachment 9 of the SWPPP.

Insert text identifying how industrial equipment is maintained to avoid leaks or other releases. Also, include information on how site-specific control measures are maintained to ensure effective operating condition.

3.1.4 Spill Prevention and Response

Spills, leaks, or other releases will be prevented and minimized by (insert information on how the facility prevents and minimizes unauthorized releases).

Insert text describing the general facility approach to spill cleanup.

All spills or releases are reported to EPC-CP by using the spills pager (505) 664-7722. Although incidental spills may be cleaned up by facility personnel, all emergency spills or releases are reported to Emergency Management Division-Emergency Response (EMD-ER) and/or the Facility Duty Officer by calling 667-2400. If fire or explosion is present, or if the potential for such exists, the situation must be reported by dialing 911 from a non-cellular phone or by activating a fire pull box. In the event of a spill, EMD-ER will coordinate appropriate cleanup procedures and EPC-CP will notify the individuals or organizations responsible for completing spill reports and providing information needed to fulfill regulatory reporting requirements.

Unauthorized releases or discharges within industrial facility boundaries are entered into the MSGP Corrective Action Reporting database in accordance with EPC-CP-QP-022, *MSGP Corrective Actions*. In addition, the completion of an Unplanned Release Report is required in the event of a spill. The report will be submitted to EPC-CP personnel and handled according to internal spill record keeping procedures. Spills may be "reportable" (requiring external agency notification) depending on the nature of the spilled material and the location of the release. External agency notification may consist of verbal and/or written notification to the National Response Center, Environmental Protection Agency Region VI, or the New Mexico Environment Department (NMED). EMD-ER, the FOD and EPC-CP, in accordance with Laboratory and DOE policies and federal and state regulatory reporting requirements, will make the determination for the type of reporting required. EPC-DO-QP-101, *Environmental Reporting Requirements for Releases or Events* is used for this purpose (see Attachment 21).

Copies of internal spill reports are maintained by the responsible organization and in the EPC-CP database. The EPC-CP procedure for spill reporting and response, ENV-CP-QP-007, *Spill Investigations*, can be found in Attachment 22 of this SWPPP.

3.1.5 Erosion and Sediment Control

Insert text describing how erosion at the facility and sediment transport off the facility is prevented/minimized. Erosion control measures that prevent soil or sediment from becoming mobilized should be used as the primary line of defense. Sediment control measures that trap, infiltrate, or settle out mobilized sediments, should be used to back-up the erosion control measures.

3.1.6 Management of Runoff

Insert text describing how the facility manages stormwater runoff. This will include a description of controls used to divert, infiltrate, reuse, contain, or otherwise reduce stormwater runoff. Installed or utilized control measures may be listed with a description of their function at the facility.

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3.1.7 Salt Storage Piles or Piles Containing Salt

Insert text describing how the facility manages salt storage piles or piles containing salt. Offloading operations should occur within contained areas with appropriate measures in place to prevent off-site migration or track out of salt from the contained area. Installed or utilized control measures may be listed with a description of their function at the facility. If none exists, state salt is not stored at the facility.

3.1.8 Dust Generation and Vehicle Tracking of Industrial Materials

Insert text describing how the facility manages dust generation and vehicle tracking.

3.2 Numeric Effluent Limitations Based on Effluent Limitations Guidelines

Insert information identifying the facility as meeting or not meeting the industrial category requirements for effluent monitoring as listed in Part 2.1.3 (*Table 2-1 Applicable Effluent Limitation Guidelines*) of the 2015 MSGP and if benchmark monitoring is or is not required.

If the permit does identify sector-specific requirements for the facility, insert a description of specific controls implemented at the facility to ensure numeric effluent limits are met.

3.3 Water Quality-Based Effluent Limitations and Water Quality Standards

Impaired waters monitoring is performed annually at the facility as listed in Section 4.7 of this SWPPP. The pollutants monitored can change yearly based on the requirements of the MSGP. The table in Section 4.7 lists the current year monitoring requirements and standards.

Stormwater from (insert facility name) discharges to (insert canyon name). Insert information on canyon reaches identified as impaired waters, pollutants causing the impairment, and approved or established TMDLs for the canyon. Also, insert specific information relative to the controls measures used to ensure discharges from industrial activities meet the water quality standards.

Refer to Section 4.7 for specific actions that will be taken when a water quality standard is exceeded.

4.0 SCHEDULES AND PROCEDURES

Preventative maintenance of control measures used to comply with the Permit effluent limits can avoid situations that result in discharges to the environment. Part 5.2.5 of the 2015 MSGP specifies control measures will have a schedule or frequency for maintenance and procedures specifying how maintenance is conducted. Part 5.5 requires documentation of maintenance and repairs including the date(s) of regular maintenance. See Attachment 10 for the Scheduled Maintenance Log.

4.1 Good Housekeeping

Insert a schedule for housekeeping activities such as waste and recyclable material (scrap metal, wood tires) pickup, street sweeping, etc. and identify any procedures used to ensure this occurs.

4.2 Maintenance

Insert a discussion of and schedule for preventative or regular maintenance of equipment such as oil/water separators, culvert clean outs, other control measures, etc. Note: Industrial equipment will be

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maintained so that leaks and other releases are avoided. All control measures will be maintained in effective operation condition.

4.3 Spill Prevention and Response

Insert a discussion of and schedule for preventing and responding to spills and leaks such as regular maintenance of equipment, placing pans under heavy equipment, and maintaining spill kits. Also, specify cleanup equipment, procedures and spill logs, and identify how often employees are trained in spill response procedures, as appropriate.

4.4 Erosion and Sediment Control

Insert a discussion of and schedule for preventative or regular maintenance of erosion, sediment and velocity control measures. If polymers and/or other chemical treatments are used as erosion or sediment control measures, identify them and include a regular schedule for reapplication. Also, include a schedule for restocking these materials to ensure the facility does not run out.

4.5 Employee Training

Employee training is essential for effective implementation of the SWPPP and MSGP requirements. The goals for the training program are to ensure that employees: (1) are aware of what happens when pollutants come in contact with stormwater; (2) are familiar with and will implement the requirements of this SWPPP; (3) are capable of preventing spills; (4) respond safely and effectively to an accident when one occurs; (5) recognize when there is an issue with a control measure; (6) recognize when additional control measure are necessary; and (7) identify situations that could lead to stormwater contamination.

Per Part 2.1.2.8 of the 2015 MSGP, training relevant to the SWPPP and MSGP is required for all workers at the facility that work in areas where industrial materials or activities are exposed to stormwater (MSGP sites); workers, managers, and supervisors who are responsible for implementing activities necessary to meet the conditions of this permit (e.g., inspectors, maintenance personnel); and all members of the PPT. Training is designed to ensure these personnel understand the MSGP and SWPPP requirements, as well as their specific responsibilities regarding these requirements.

Training provided and assigned to these personnel cover both the specific control measures used at the facility; along with monitoring, inspection, planning, reporting, and documentation requirements described in this SWPPP. Training will be conducted at least annually. The DEP, Deployed Environment Safety and Health (DESH) Group Leader and Pollution Prevention Team members are responsible for ensuring all appropriate personnel receive this training. It is suggested to add a list of job titles per facility that require training (e.g., Mechanics, Heavy Equipment Operators, PPT members, Operations Manager(s), etc.).

Training activities are documented in accordance with LANL's Training Standards. In cases where training is formalized enough to require specific curricula and reoccurrence, the training activity will be recorded in LANL's official U-TRAIN database. Informal briefings, such as those included in-group safety meetings are not typically recorded in U-TRAIN. Sign-in sheets are used to document attendance and will be kept on file in Attachment 11 of this SWPPP.

The topics in this SWPPP that are covered in the latest version of the facility-specific annual MSGP training (see Attachment 11) include the following:

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- Overview of the SWPPP contents;
- Spill response and cleanup procedures, good housekeeping, maintenance requirements, and material management practices to prevent stormwater pollution;
- The location of all controls on the site required by this permit and how they are maintained;
- The proper procedures to follow with respect to the permit's pollution prevention requirements; and
- When and how to conduct inspections, record applicable findings, and take corrective actions.

4.6 Routine Facility Inspections and Quarterly Visual Assessments

Routine inspections at this facility are conducted and documented monthly in accordance with EPC-CP-QP-023, *MSGP Routine Facility Inspections* (Attachment 16).

Visual assessments are conducted in accordance with EPC-CP-QP-064, *MSGP Stormwater Visual Assessments* (Attachment 18).

4.6.1 Routine Facility Inspections

At least once each calendar year, the routine facility inspection is conducted during a period when a stormwater discharge is occurring. A qualified member of the PPT (typically the DEP, a representative from the EPC-CP Storm Water Permitting/Compliance Team or EPC-CP Program Lead) performs the inspection. The 2015 MSGP consolidates the different and separate documentation requirements in the Comprehensive Site Inspection Procedures and Routine Facility Inspection Procedures from the 2008 MSGP. EPC-CP will perform at least one routine inspection per year in order to evaluate corrective action status for the Annual Report requirements.

Routine inspections will evaluate the following areas, at a minimum:

- Areas where industrial materials or activities are exposed to stormwater;
- Areas identified in the SWPPP and those that are potential pollutant sources;
- Areas where spills and leaks have occurred in the last three years;
- Discharge points(outfalls/Substantially Identical Outfalls (SIOs); and
- Control measures used to comply with the effluent limits contained in this permit.
- Specific areas of the facility to be inspected are described in Section 2.1.

During routine inspections, the following must be examined and looked for:

- Industrial materials, residue or trash that may have or could come into contact with stormwater;
- Leaks or spills from industrial equipment, drums, tanks and other containers;
- Offsite tracking of industrial or waste materials, or sediment where vehicles enter or exit the site;
- Tracking or blowing of raw, final or waste materials from areas of no exposure to exposed areas; and
- Control measures needing maintenance, repairs or replacement.

Inspections performed by the PPT member are documented by completing the routine facility inspection form, which identifies all conditions requiring corrective action and other potential stormwater pollution issues that were encountered. All conditions requiring corrective actions identified during the inspection are addressed in accordance with Section 6.0 *Corrective Actions and Deadlines* of this plan. Facility personnel or the DEP may also perform daily, weekly, or other periodic facility surveys (walk downs)

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between monthly routine inspections to ensure compliance with the SWPPP and MSGP. Completed routine facility inspection forms are provided in Attachment 7 of this SWPPP and meet the requirements listed in the 2015 MSGP (Part 3.1.2.).

4.6.2 Quarterly Visual Assessments

Once each quarter, (April 1-May 31, June 1-July 31, August 1-September 30, October 1-November 30) a stormwater sample is obtained and visual assessment performed at each outfall, if a measurable storm event occurred. A qualified member of the PPT (DEP, EPC-CP field team member or MSGP Program Lead) conducts the visual assessment. The visual assessment will be:

- Of a sample in a clean, clear colorless glass or plastic container and examined in a well-lit area;
- On samples collected within the first 30 minutes of an actual discharge from a storm event or as soon as practicable thereafter. Alternatively, document why it was not possible to collect the sample within the first 30 minutes (i.e. adverse conditions, not enough flow, etc.); and
- Conducted at least 72 hours since the last storm event; or document that the 72-hour period is representative of local storm events during the sampling period.

Note: Snowmelt samples need only be collected during a period of measurable discharge.

The visual assessment will inspect for the following water quality characteristics: color, odor, clarity, floating solids, settled solids, suspended solids, foam, oil sheen, and other obvious indicators of stormwater pollution.

Exceptions to visual assessments:

- Document rationale if a visual assessment is unable to be collected in a quarter (no precipitation event or adverse conditions, etc.);
- Perform an additional assessment during the next qualifying storm event if unable to perform in a particular quarter; and
- Perform one quarterly assessment during snowmelt discharge (taken during a measurable discharge from the site).

For facilities with substantially identical outfalls, quarterly visual assessments may be performed at only one of the outfalls, provided that you perform visual inspections on a rotating basis at each substantially identical outfall.

The PPT member performing the visual assessment documents potential stormwater pollution problems that were observed during the assessment on the quarterly visual assessment form. Any required corrective actions identified during the assessment are addressed in accordance with Section 6.0 *Corrective Actions and Deadlines* of this plan. Completed quarterly visual assessments are provided in Attachment 8 of this SWPPP and meet the requirements listed in the 2015 MSGP (Part 3.2.2).

4.7 Monitoring

Analytical monitoring comprised of Impaired Waters [insert Effluent Limitation Guideline monitoring for industrial activity identified in Tables 1-1 and 6-1 of the 2015 MSGP (for example the Asphalt Batch Plant)] monitoring is performed annually on stormwater discharges from the site. Benchmark constituents are monitored quarterly. Monitoring occurs when storm events result in an actual discharge from the site and follow the preceding measurable storm event by at least 72 hours (3 days), unless documented that the storm event is representative of local storm events during the sampling

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period. For runoff from snowmelt, the monitoring is performed at a time when a measurable discharge from the site occurs.

Monitoring is conducted according to test procedures approved under 40 CFR Part 136. Runoff samples are collected by taking a minimum of one grab sample from a discharge, collected within the first 30 minutes of a measurable storm event. If it is not possible to collect the sample within the first 30 minutes of a measurable storm event, the sample is collected as soon as practicable after the first 30 minutes and documentation is kept with the SWPPP explaining why it was not possible.

LANL is located in a high elevation, semi-arid climate where the majority of rainfall occurs during a period between July and September. Freezing conditions that would prevent runoff from occurring for extended periods may also occur during the winter months. If adverse weather conditions prevent the collection of a sample according to the relevant monitoring schedule, a sample will be collected during the next qualifying storm event or as soon as practicable.

Monitoring occurs at automated sampling station [insert automated sampler identifier (e.g., MSGP07501)] as identified in Section 1.5. Discharge from the facility is (insert cardinal direction) to (insert canyon name) (impaired waters), which is a tributary of the Rio Grande located approximately X miles east of the facility.

Outfall (insert substantially identical outfall identification number) is "substantially identical" to Outfall (insert monitored outfall identification number) based on (insert the following information: industrial activities conducted in the drainage area, description of control measures implemented in the drainage area of each outfall, description of exposed material located in the drainage area of each outfall that are likely to be significant contributors of pollutants to stormwater discharges, and an estimate of the runoff coefficient of the drainage areas). Outfall locations are shown on the site map provided in Figure B-1. Note: Delete this paragraph if the facility has no substantially identical outfalls. If the facility has multiple maps, reference them all.

Monitoring will continue annually for constituents associated with impaired waters until a constituent is no longer detected in stormwater samples.

If the impaired water or benchmark constituent value exceeds the New Mexico Water Quality criterion (insert or ELG value is exceeded, if applicable), the Pollution Prevention Team will:

- Review the selection, design, installation, and implementation of control measures to determine if modifications are necessary to meet the effluent limits;
- Implement the necessary modifications within the timeframe specified for corrective action; and
- Continue benchmark or annual monitoring of the constituent (as required by Part 6.2 of the 2015 MSGP);
- If an ELG is exceeded, follow-up monitoring within 30 calendar days (or during the next qualifying runoff event) of implementing corrective action(s) is required. When follow-up monitoring exceeds the applicable effluent limitation, an exceedance report is submitted to EPA and monitoring continues at least quarterly, until the discharge complies with the effluent limit.

For each monitoring event, except snowmelt monitoring, the following information will be recorded and maintained through work orders, LANL database systems, and Discharge Monitoring Records:

- The date, exact place, and time of sampling or measurements;
- The date and duration (in hours) of the rainfall event
- Rainfall total (in inches) for that rainfall event

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- The individual(s) who performed the sampling or measurements;
- The date(s) analyses were performed
- The individual(s) who performed the analyses;
- The analytical techniques or methods used; and
- The results of such analyses.

All records of monitoring information, including all calibration and maintenance records are maintained for a minimum period of at least three years from the date the permit expires.

Insert information on quarterly benchmark and annual Impaired Waters or Effluent Limitation Guideline monitoring required for facility and benchmark pollutants to be sampled.

LANL's applicable stormwater monitoring procedures can be found in the following Attachments:

- EPC-CP-QP-047, *Inspecting Stormwater Runoff Samplers and Retrieving Samples for the MSGP* (Attachment 19)
- EPC-CP-QP-2106, *Processing MSGP Stormwater Samples* (Attachment 20).

The table on the following page lists the current Summary of Monitoring Requirements. The monitoring values have been modified to reflect New Mexico water quality standards and are based on the most protective water quality standards from the Standards for Interstate and Intrastate Surface Waters (effective on February 28, 2018), 20.6.4.900 NMAC; and as set forth in Part 9.6.2.1 of the 2015 MSGP.

EXAMPLE

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Summary of Monitoring Requirements

Outfalls: (insert outfall numbers)

Contact MSGP Program Lead to obtain this information formatted for insertion.

EXAMPLE

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5.0 DOCUMENTATION FOR ELIGIBILITY CONSIDERATIONS UNDER OTHER FEDERAL LAWS

5.1 Endangered Species

The Final Site-Wide Environmental Impact Statement (EIS) for the Operation of Los Alamos National Laboratory (DOE/EIS-0380) was issued in May 2008, and a Record of Decision in September 2008. Stormwater issues and associated pollution prevention requirements and activities at LANL are analyzed in Chapters 4 and 5 of the 2008 Site-Wide EIS. These activities are integrated into environmental reviews on a project-specific level through LANL's Integrated Review Tool (IRT), which incorporates both the Excavation Permit (EX-ID) and Permit Requirements Identification (PR-ID) process. Stormwater issues are identified and pollution prevention activities are implemented during the design and construction phases of all LANL projects, and as part of facility operations, including routine maintenance. LANL staff monitors stormwater pollution prevention compliance at MSGP sites in accordance with Section 4.7 *Monitoring* of this plan. Corrective actions are taken as necessary as described in Section 6.0 *Corrective Actions and Deadlines* of this plan.

Part 5.2.2 of the 2015 MSGP requires areas of designated critical habitat for endangered or threatened species, as applicable, be included in the SWPPP. The *Threatened and Endangered Species Habitat Management Plan for Los Alamos National Laboratory* (LA-UR-17-29454) was last updated in October 2017 (see Attachment 13). This document provides a management strategy for the protection of threatened and endangered species and their habitats on LANL property. The MSGP IPaC Trust Resource Report (see Attachment 14) is also attached for informational purposes.

5.2 Historic Properties

In August, 2015 and December 2008, the Cultural Resources Team (using GPS spatial data as well as conducting visual inspections), reviewed the Laboratory industrial sites (see list below) and their associated outfalls and monitoring stations subject to the 2015 Multi-Sector General Permit (Permit #NMR050000) for effects on historic properties. All of these sites were found to be undertakings of no effect and in compliance with Section 106 of the National Historic Preservation Act (i.e., Criterion B).

- TA-3-22 Power and Steam Plant
- TA-3-38 Metals Fabrication Shop
- TA-3-38 Wood Shop
- TA-3-39 and 102 Metal Shop
- TA-3-66 Sigma Complex
- TA-60 Asphalt Batch Plant
- TA-60-1 Heavy Equipment Yard
- TA-60 Material Recycle Facility
- TA-60 Roads and Grounds
- TA-60-2 Warehouse
- TA-54 RANT

6.0 CORRECTIVE ACTIONS AND DEADLINES

When any of the following conditions occur or are detected during an inspection, monitoring or any other means, this SWPPP (e.g., sources of pollution; spill and leak procedures; non-stormwater discharges; the selection, design, installation and implementation of control measures) is reviewed and

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revised (as appropriate). The purpose is to ensure effluent limits of the 2015 MSGP permit are met and pollutant discharges are minimized:

- An unauthorized release or discharge (e.g., spill, leak, or discharge of non-stormwater not authorized by this or another NPDES permit to a water of the U.S.) occurs at the facility;
- A discharge violates a numeric effluent limit;
- Control measures are not stringent enough for the discharge to meet applicable water quality standards or non-numeric effluent limits;
- An inspection identifies that a required control measure was never installed, was installed incorrectly or is not being properly operated or maintained; and
- Whenever a visual assessment shows evidence of stormwater pollution.

When any of the following conditions occur, a review of the selection, design, installation, and implementation of control measures is performed to determine if modifications are necessary to meet the effluent limits in this permit:

- Construction or a change in design, operation, or maintenance at the facility significantly changes the nature of pollutants discharged in stormwater from the facility, or significantly increases the quantity of pollutants discharged; or
- The average of 4 quarterly sampling results exceeds an applicable benchmark. If less than 4 benchmark samples have been taken, but the results are such that an exceedance of the 4 quarter average is mathematically certain (i.e., if the sum of quarterly sample results to date is more than 4 times the benchmark level) this is considered a benchmark exceedance, triggering this review (see Section 4.7); or
- If an impaired water constituent exceeds the NM Water Quality criterion (see Section 4.7).

When the review identifies the need to modify the SWPPP, it will be revised within 14 calendar days of completion of the associated condition requiring corrective action.

6.1 Immediate Actions

When a condition requiring corrective action is identified, all reasonable steps necessary to minimize or prevent the discharge of pollutants are immediately taken (i.e. spill clean-up, scheduling repairs) until a permanent solution (if needed) can be implemented. Immediate action means all reasonable steps are taken the same workday or no later than the following workday (when it is too late in the day to take corrective action).

6.2 Subsequent Actions

When additional corrective actions are required (e.g. installing or making operational a new or modified control, completing repairs, ordering BMPs) they will be completed by the next storm event, if possible, or within 14 calendar days (from initial discovery). When it is determined that it is infeasible to complete corrective actions within 14 days, documentation of infeasibility and a schedule for completion of the work is documented in the CAR database, which will be completed no later than 45 days (from initial discovery). When it is determined that corrective actions will exceed 45 days, EPA is notified and provided justification of why actions will exceed the timeframe; and a minimal amount of additional time to complete the work may be approved.

6.3 Corrective Action Documentation

| | | |
|--|--------------------|----------------------------|
| MSGP Stormwater Pollution Prevention Plan Preparation and Maintenance | No: EPC-CP-QP-2110 | Page 33 of 72 |
| | Revision: 0 | Effective Date: 01/07/2020 |

Attachment 1: EPC-CP-QP-2110 R0 Form 1, MSGP SWPPP Template Example (cont.)

(Page 22 of 50)

Insert Facility Name
 MSGP Stormwater Pollution Prevention Plan
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Upon discovery, conditions requiring corrective action are documented by the DEP or EPC-CP on a Routine Facility Inspection Form and/or entered into the CAR database. The action will be kept open in the database until the issue has been resolved. Documentation of maintenance and repairs of stormwater control measures (BMPs) will be kept in Attachment 10 of this SWPPP. Where corrective actions result in changes to procedures or controls documented in this SWPPP, modifications to the SWPPP are made accordingly within 14 calendar days of completing the corrective action(s). LANL procedure EPC-CP-QP-022, *MSGP Corrective Actions* can be found in Attachment 17.

7.0 ACRONYMS

| | |
|------------------------|---|
| BMP | Best Management Practice |
| CAR | Corrective Action Report |
| DEP | Deployed Environmental Professional |
| DESH | Deployed Environmental Safety and Health |
| DOE | Department of Energy |
| EIS | Environmental Impact Statement |
| ELG | Effluent Limitation Guidelines |
| EMD-ER | Emergency Management Division-Emergency Response |
| EPA | Environmental Protection Agency |
| EPC-CP | Environmental Protection and Compliance – Compliance Programs |
| FOD | Facility Operations Division |
| IPaC | Information for Planning and Consultation |
| LANL or the Laboratory | Los Alamos National Laboratory |
| MSGP or Permit | Multi-Sector General Permit |
| NOI | Notice of Intent |
| NPDES | National Pollutant Discharge Elimination System |
| PPT | Pollution Prevention Team |
| SWPPP | Stormwater Pollution Prevention Plan |
| URL | Uniform Resource Locator |

| | | |
|--|--------------------|----------------------------|
| MSGP Stormwater Pollution Prevention Plan Preparation and Maintenance | No: EPC-CP-QP-2110 | Page 34 of 72 |
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Attachment 1: EPC-CP-QP-2110 R0 Form 1, MSGP SWPPP Template Example (cont.)
(Page 23 of 50)

Insert Facility Name
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 Revision X, Date

8.0 SWPPP CERTIFICATION

STORMWATER POLLUTION PREVENTION PLAN

(Insert Facility Name)

Los Alamos National Laboratory

CERTIFICATION STATEMENT

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature _____
 (Insert Printed Name)
 (Insert Title)

Date _____

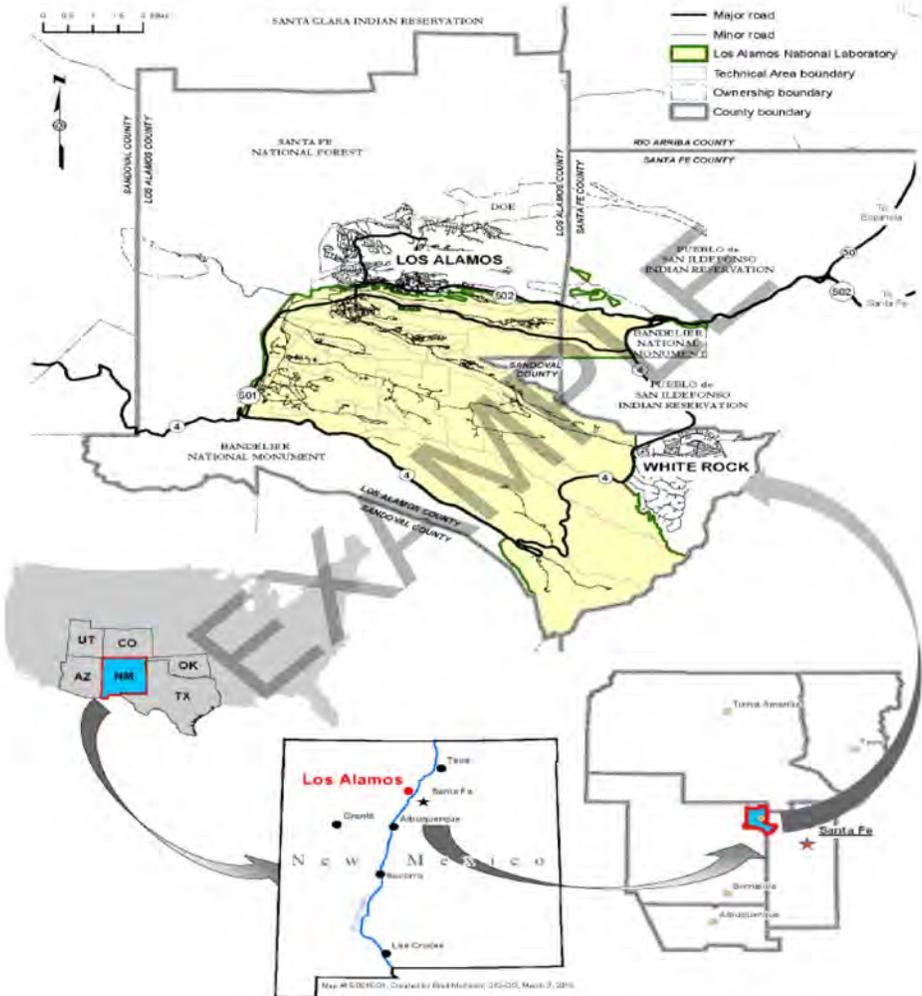
EXAMPLE

| | | |
|--|--------------------|----------------------------|
| MSGP Stormwater Pollution Prevention Plan Preparation and Maintenance | No: EPC-CP-QP-2110 | Page 35 of 72 |
| | Revision: 0 | Effective Date: 01/07/2020 |

Attachment 1: EPC-CP-QP-2110 R0 Form 1, MSGP SWPPP Template Example (cont.)
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FIGURE A: GENERAL LOCATION MAP



| | | |
|--|--------------------|----------------------------|
| MSGP Stormwater Pollution Prevention Plan Preparation and Maintenance | No: EPC-CP-QP-2110 | Page 36 of 72 |
| | Revision: 0 | Effective Date: 01/07/2020 |

Attachment 1: EPC-CP-QP-2110 R0 Form 1, MSGP SWPPP Template Example (cont.)
(Page 25 of 50)

Insert Facility Name
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FIGURE B: MAP(S)

Label the figures as Figure B-1, Figure B-2, etc.

Insert maps in the following order:

- Facility specific site map(s),
- Receiving waters maps, and
- Threatened Endangered Species Map.

EXAMPLE

| | | |
|--|--------------------|----------------------------|
| MSGP Stormwater Pollution Prevention Plan Preparation and Maintenance | No: EPC-CP-QP-2110 | Page 37 of 72 |
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Attachment 1: EPC-CP-QP-2110 R0 Form 1, MSGP SWPPP Template Example (cont.)
(Page 26 of 50)

Insert Facility Name
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ATTACHMENT 1: NOTICE OF INTENT, SUPPORTING DOCUMENTATION, AND UPDATES

Insert the appropriate attachment. Note: There may be several "Change NOIs" submitted to EPA within a permit term. Contact the MSGP Program Lead to ensure all are included in this attachment.

EXAMPLE

| | | |
|--|--------------------|----------------------------|
| MSGP Stormwater Pollution Prevention Plan Preparation and Maintenance | No: EPC-CP-QP-2110 | Page 38 of 72 |
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Attachment 1: EPC-CP-QP-2110 R0 Form 1, MSGP SWPPP Template Example (cont.)
(Page 27 of 50)

Insert Facility Name
 MSGP Stormwater Pollution Prevention Plan
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ATTACHMENT 2: SWPPP AMENDMENTS

Insert text documenting all changes or updates made to the SWPPP. Text may be in table format as shown below.

| Date | Plan Section | Reason for Amendment | Amendment |
|------|--------------|----------------------|-----------|
| | | | |
| | | | |

EXAMPLE

| | | |
|--|--------------------|----------------------------|
| MSGP Stormwater Pollution Prevention Plan Preparation and Maintenance | No: EPC-CP-QP-2110 | Page 39 of 72 |
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Attachment 1: EPC-CP-QP-2110 R0 Form 1, MSGP SWPPP Template Example (cont.)
(Page 28 of 50)

Insert Facility Name
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ATTACHMENT 3: CERTIFICATION OF NO UNAUTHORIZED STORMWATER DISCHARGES

Insert the appropriate attachment.

EXAMPLE

| | | |
|--|--------------------|----------------------------|
| MSGP Stormwater Pollution Prevention Plan Preparation and Maintenance | No: EPC-CP-QP-2110 | Page 40 of 72 |
| | Revision: 0 | Effective Date: 01/07/2020 |

Attachment 1: EPC-CP-QP-2110 R0 Form 1, MSGP SWPPP Template Example (cont.)
(Page 29 of 50)

MSGP Stormwater Pollution Prevention Plan
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ATTACHMENT 4: DULY AUTHORIZED SIGNATORY MEMORANDUM

Insert the appropriate attachment.

EXAMPLE

| | | |
|--|--------------------|----------------------------|
| MSGP Stormwater Pollution Prevention Plan Preparation and Maintenance | No: EPC-CP-QP-2110 | Page 41 of 72 |
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Attachment 1: EPC-CP-QP-2110 R0 Form 1, MSGP SWPPP Template Example (cont.)
(Page 30 of 50)

Insert Facility Name
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ATTACHMENT 5: DISCHARGE MONITORING REPORTS

Insert the discharge monitoring reports.

EXAMPLE

| | | |
|--|--------------------|----------------------------|
| MSGP Stormwater Pollution Prevention Plan Preparation and Maintenance | No: EPC-CP-QP-2110 | Page 42 of 72 |
| | Revision: 0 | Effective Date: 01/07/2020 |

Attachment 1: EPC-CP-QP-2110 R0 Form 1, MSGP SWPPP Template Example (cont.)
(Page 31 of 50)

Insert Facility Name
 MSGP Stormwater Pollution Prevention Plan
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ATTACHMENT 6: ANNUAL REPORTS

Insert the annual reports. The MSGP Program Lead provides these.

EXAMPLE

| | | |
|--|--------------------|----------------------------|
| MSGP Stormwater Pollution Prevention Plan Preparation and Maintenance | No: EPC-CP-QP-2110 | Page 43 of 72 |
| | Revision: 0 | Effective Date: 01/07/2020 |

Attachment 1: EPC-CP-QP-2110 R0 Form 1, MSGP SWPPP Template Example (cont.)
(Page 32 of 50)

Insert Facility Name
 MSGP Stormwater Pollution Prevention Plan
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ATTACHMENT 7: ROUTINE FACILITY INSPECTIONS

Insert completed Routine Facility Inspection forms.

EXAMPLE

| | | |
|--|--------------------|----------------------------|
| MSGP Stormwater Pollution Prevention Plan Preparation and Maintenance | No: EPC-CP-QP-2110 | Page 44 of 72 |
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Attachment 1: EPC-CP-QP-2110 R0 Form 1, MSGP SWPPP Template Example (cont.)
(Page 33 of 50)

Insert Facility Name
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ATTACHMENT 8: QUARTERLY VISUAL ASSESSMENTS

Insert completed Quarterly Visual Assessment forms. EPC-CP provides these by memorandum as they are produced.

EXAMPLE

| | | |
|--|--------------------|----------------------------|
| MSGP Stormwater Pollution Prevention Plan Preparation and Maintenance | No: EPC-CP-QP-2110 | Page 45 of 72 |
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Attachment 1: EPC-CP-QP-2110 R0 Form 1, MSGP SWPPP Template Example (cont.)
(Page 34 of 50)

Insert Facility Name
 MSGP Stormwater Pollution Prevention Plan
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ATTACHMENT 9: CORRECTIVE ACTION DOCUMENTATION AND CERTIFICATION

Contact the EPC-CP MSGP Program Lead for an excel spreadsheet of all corrective actions and a certification statement for signature.

EXAMPLE

| | | |
|--|--------------------|----------------------------|
| MSGP Stormwater Pollution Prevention Plan Preparation and Maintenance | No: EPC-CP-QP-2110 | Page 47 of 72 |
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Attachment 1: EPC-CP-QP-2110 R0 Form 1, MSGP SWPPP Template Example (cont.)
(Page 36 of 50)

Insert Facility Name
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ATTACHMENT 11: TRAINING DOCUMENTATION

Insert the appropriate documentation.

EXAMPLE

| | | |
|--|--------------------|----------------------------|
| MSGP Stormwater Pollution Prevention Plan Preparation and Maintenance | No: EPC-CP-QP-2110 | Page 48 of 72 |
| | Revision: 0 | Effective Date: 01/07/2020 |

Attachment 1: EPC-CP-QP-2110 R0 Form 1, MSGP SWPPP Template Example (cont.)
(Page 37 of 50)

Insert Facility Name
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ATTACHMENT 12: MSGP (OR ACTIVE URL)

Either insert a copy of the most current Permit, or insert the URL address (see example below):

A copy of the 2015 MSGP is kept on file with the SWPPP in hard copy.

The active URL for the permit is <https://www.epa.gov/npdes/final-2015-msgp-documents>

EXAMPLE

| | | |
|--|--------------------|----------------------------|
| MSGP Stormwater Pollution Prevention Plan Preparation and Maintenance | No: EPC-CP-QP-2110 | Page 49 of 72 |
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Attachment 1: EPC-CP-QP-2110 R0 Form 1, MSGP SWPPP Template Example (cont.)
(Page 38 of 50)

Insert Facility Name
 MSGP Stormwater Pollution Prevention Plan
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 Revision X, Date

ATTACHMENT 13: THREATENED AND ENDANGERED SPECIES HABITAT MANAGEMENT PLAN FOR LOS ALAMOS NATIONAL LABORATORY

Insert the most current revision of the management plan for LANL.

EXAMPLE

| | | |
|--|--------------------|----------------------------|
| MSGP Stormwater Pollution Prevention Plan Preparation and Maintenance | No: EPC-CP-QP-2110 | Page 50 of 72 |
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Attachment 1: EPC-CP-QP-2110 R0 Form 1, MSGP SWPPP Template Example (cont.)
(Page 39 of 50)

Insert Facility Name
 MSGP Stormwater Pollution Prevention Plan
 Document Reference Number
 Revision X, Date

ATTACHMENT 14: MSGP IPAC TRUST RESOURCES REPORT

Contact the EPC-CP MSGP Program Lead for this information formatted for insertion.

NOTE: The Permit requires this information. However, LANL EPC-ES has completed consultation with U.S. Fish and Wildlife Service. Letters of Consultation are contained in the NOI (see Attachment 1). Refer to Attachment 13 for the species habitat management plan.

EXAMPLE

| | | |
|--|--------------------|----------------------------|
| MSGP Stormwater Pollution Prevention Plan Preparation and Maintenance | No: EPC-CP-QP-2110 | Page 51 of 72 |
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Attachment 1: EPC-CP-QP-2110 R0 Form 1, MSGP SWPPP Template Example (cont.)
(Page 40 of 50)

Insert Facility Name
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ATTACHMENT 15: EPC-CP-PIP-2101, NPDES MULTI-SECTOR GENERAL PERMIT

Insert the appropriate plan into this SWPPP. Ensure the most current revision of this plan is inserted.

EXAMPLE

| | | |
|--|--------------------|----------------------------|
| MSGP Stormwater Pollution Prevention Plan Preparation and Maintenance | No: EPC-CP-QP-2110 | Page 52 of 72 |
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Attachment 1: EPC-CP-QP-2110 R0 Form 1, MSGP SWPPP Template Example (cont.)
(Page 41 of 50)

Insert Facility Name
 MSGP Stormwater Pollution Prevention Plan
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ATTACHMENT 16: EPC-CP-QP-023, *MSGP ROUTINE FACILITY INSPECTIONS*

Insert the appropriate procedure or parts of the procedure that pertain to this SWPPP. Ensure the most current revision of this procedure is inserted.

EXAMPLE

| | | |
|--|--------------------|----------------------------|
| MSGP Stormwater Pollution Prevention Plan Preparation and Maintenance | No: EPC-CP-QP-2110 | Page 53 of 72 |
| | Revision: 0 | Effective Date: 01/07/2020 |

Attachment 1: EPC-CP-QP-2110 R0 Form 1, MSGP SWPPP Template Example (cont.)
(Page 42 of 50)

Insert Facility Name
 MSGP Stormwater Pollution Prevention Plan
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ATTACHMENT 17: EPC-CP-QP-022, *MSGP CORRECTIVE ACTIONS*

Insert the appropriate procedure or parts of the procedure that pertain to this SWPPP. Ensure the most current revision of this procedure is inserted.

EXAMPLE

| | | |
|--|--------------------|----------------------------|
| MSGP Stormwater Pollution Prevention Plan Preparation and Maintenance | No: EPC-CP-QP-2110 | Page 54 of 72 |
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Attachment 1: EPC-CP-QP-2110 R0 Form 1, MSGP SWPPP Template Example (cont.)
(Page 43 of 50)

Insert Facility Name
 MSGP Stormwater Pollution Prevention Plan
 Document Reference Number
 Revision X, Date

ATTACHMENT 18: EPC-CP-QP-064, MSGP STORMWATER VISUAL ASSESSMENTS

Insert the appropriate procedure or parts of the procedure that pertain to this SWPPP. Ensure the most current revision of this procedure is inserted.

EXAMPLE

| | | |
|--|--------------------|----------------------------|
| MSGP Stormwater Pollution Prevention Plan Preparation and Maintenance | No: EPC-CP-QP-2110 | Page 55 of 72 |
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Attachment 1: EPC-CP-QP-2110 R0 Form 1, MSGP SWPPP Template Example (cont.)
(Page 44 of 50)

Insert Facility Name
 MSGP Stormwater Pollution Prevention Plan
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ATTACHMENT 19: EPC-CP-QP-047, INSPECTING STORMWATER RUNOFF SAMPLERS AND RETRIEVING SAMPLES FOR THE MSGP

Insert the appropriate procedure or parts of the procedure that pertain to this SWPPP. Ensure the most current revision of this procedure is inserted.

EXAMPLE

| | | |
|--|--------------------|----------------------------|
| MSGP Stormwater Pollution Prevention Plan Preparation and Maintenance | No: EPC-CP-QP-2110 | Page 56 of 72 |
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Attachment 1: EPC-CP-QP-2110 R0 Form 1, MSGP SWPPP Template Example (cont.)
(Page 45 of 50)

Insert Facility Name
 MSGP Stormwater Pollution Prevention Plan
 Document Reference Number
 Revision X, Date

ATTACHMENT 20: EPC-CP-QP-2106, *PROCESSING MSGP STORMWATER SAMPLES*

Insert the appropriate procedure or parts of the procedure that pertain to this SWPPP. Ensure the most current revision of this procedure is inserted.

EXAMPLE

| | | |
|--|--------------------|----------------------------|
| MSGP Stormwater Pollution Prevention Plan Preparation and Maintenance | No: EPC-CP-QP-2110 | Page 57 of 72 |
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Attachment 1: EPC-CP-QP-2110 R0 Form 1, MSGP SWPPP Template Example (cont.)
(Page 46 of 50)

Insert Facility Name
 MSGP Stormwater Pollution Prevention Plan
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ATTACHMENT 21: EPC-DO-QP-101, ENVIRONMENTAL REPORTING REQUIREMENTS FOR RELEASES OR EVENTS

Insert the appropriate procedure or parts of the procedure that pertain to this SWPPP. Ensure the most current revision of this procedure is inserted.

EXAMPLE

| | | |
|--|--------------------|----------------------------|
| MSGP Stormwater Pollution Prevention Plan Preparation and Maintenance | No: EPC-CP-QP-2110 | Page 58 of 72 |
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Attachment 1: EPC-CP-QP-2110 R0 Form 1, MSGP SWPPP Template Example (cont.)
(Page 47 of 50)

Insert Facility Name
 MSGP Stormwater Pollution Prevention Plan
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ATTACHMENT 22: EPC-CP-QP-007, SPILL INVESTIGATIONS

Insert the appropriate procedure or parts of the procedure that pertain to this SWPPP. Ensure the most current revision of this procedure is inserted.

EXAMPLE

| | | |
|--|--------------------|----------------------------|
| MSGP Stormwater Pollution Prevention Plan Preparation and Maintenance | No: EPC-CP-QP-2110 | Page 59 of 72 |
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Attachment 1: EPC-CP-QP-2110 R0 Form 1, MSGP SWPPP Template Example (cont.)
(Page 48 of 50)

Insert Facility Name
 MSGP Stormwater Pollution Prevention Plan
 Document Reference Number
 Revision X, Date

ATTACHMENT 23: EPC-CP-QP-2110, MSGP STORMWATER POLLUTION PREVENTION PLAN PREPARATION AND MAINTENANCE

Insert the appropriate procedure or parts of the procedure that pertain to this SWPPP. Ensure the most current revision of this procedure is inserted.

EXAMPLE

| | | |
|--|--------------------|----------------------------|
| MSGP Stormwater Pollution Prevention Plan Preparation and Maintenance | No: EPC-CP-QP-2110 | Page 60 of 72 |
| | Revision: 0 | Effective Date: 01/07/2020 |

Attachment 1: EPC-CP-QP-2110 R0 Form 1, MSGP SWPPP Template Example (cont.)
(Page 49 of 50)

Insert Facility Name
 MSGP Stormwater Pollution Prevention Plan
 Document Reference Number
 Revision X, Date

ATTACHMENT 24: LOCAL PROCEDURE

Insert the appropriate procedure or parts of the procedure that pertain to this SWPPP. If this section is used, ensure the most current revision of the attached procedure is inserted. Delete section if not needed.

EXAMPLE

| | | |
|--|--------------------|----------------------------|
| MSGP Stormwater Pollution Prevention Plan Preparation and Maintenance | No: EPC-CP-QP-2110 | Page 61 of 72 |
| | Revision: 0 | Effective Date: 01/07/2020 |

Attachment 1: EPC-CP-QP-2110 R0 Form 1, MSGP SWPPP Template Example (cont.)
(Page 50 of 50)

Insert Facility Name
 MSGP Stormwater Pollution Prevention Plan
 Document Reference Number
 Revision X, Date

ATTACHMENT 25: LOCAL PROCEDURE

Insert the appropriate procedure or parts of the procedure that pertain to this SWPPP. If this section is used, ensure the most current revision of the attached procedure is inserted. Delete section if not needed.

EXAMPLE

MSGP Stormwater Pollution Prevention Plan Preparation and Maintenance

No: EPC-CP-QP-2110

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Revision: 0

Effective Date: 01/07/2020

Attachment 2: MSGP SWPPP Review Guidance Checklist Example
(Page 1 of 11)

MSGP SWPPP Review Guidance Checklist

SWPPP Title _____

| REQUIREMENT | YES/NO | NOTES |
|---|--------|-------|
| Stormwater Pollution Prevention Team | | |
| Is the SWPPP being developed or updated by a qualified person? | | |
| Does the SWPPP list Stormwater Pollution Prevention Team members (by name or title) and each individual's responsibilities? | | |
| Is a copy of the SWPPP immediately available at the site and on-line? | | |
| Contents of the SWPPP | | |
| If the SWPPP refers to procedures or other documents, are copies of the relevant portions of these procedures or documents present in the SWPPP? | | |
| Site Description | | |
| Does the SWPPP include the following information? | | |
| <ul style="list-style-type: none"> Identify a description of the nature of the industrial activities at the site | | |
| Provide a general location map (e.g., U.S. Geological Survey (USGS) quadrangle map) with enough detail to identify the location of the site and all receiving waters for industrial stormwater discharges. | | |
| Site map showing the following: | | |
| <ul style="list-style-type: none"> Boundaries of the property and size of the property in acres | | |
| <ul style="list-style-type: none"> Location and extent of significant structures and impervious surfaces | | |
| <ul style="list-style-type: none"> Direction(s) of stormwater flow (using arrows) | | |
| <ul style="list-style-type: none"> Locations of all stormwater control measures | | |
| <ul style="list-style-type: none"> Locations of all receiving waters, including wetlands, in the immediate vicinity of the site. Indicate which water bodies are listed as impaired and which are identified as Tier 2, Tier 2.5, or Tier 3 waters (for LANL, none) | | |
| <ul style="list-style-type: none"> Locations of all stormwater conveyances including ditches, pipes, and swales | | |
| <ul style="list-style-type: none"> Locations of potential pollutant sources associated with each industrial activity (see Part 5.2.3.2) that could be exposed to rainfall or snowmelt and could be discharged from the site. | | |
| <ul style="list-style-type: none"> Locations where significant spills or leaks have occurred (see Part 5.2.3.3) | | |
| <ul style="list-style-type: none"> Location(s) of all stormwater monitoring points | | |
| <ul style="list-style-type: none"> Location of each stormwater inlet and outfall, with a unique identification code for each outfall (i.e., 001, 002, 003, etc.), indicating if you are treating one or more outfalls as "substantially identical" (see Parts 3.2.3, 5.2.5.3, and 6.1.1) | | |
| <ul style="list-style-type: none"> If applicable, location of the MS4 and where your stormwater discharges to it. <p>NOTE: Although LANL does not currently have an MS4, EPA has published a draft permit.</p> | | |
| <ul style="list-style-type: none"> Areas of designated critical habitat for endangered or threatened species | | |
| <ul style="list-style-type: none"> Locations of the following activities where such activities are exposed to precipitation: | | |

MSGP SWPPP Review Guidance Checklist

| | | |
|--|--------------------|----------------------------|
| MSGP Stormwater Pollution Prevention Plan Preparation and Maintenance | Page 63 of 72 | Effective Date: 01/07/2020 |
| | No: EPC-CP-QP-2110 | Revision: 0 |

Attachment 2: MSGP SWPPP Review Guidance Checklist Example (cont.)
(Page 2 of 11)

| REQUIREMENT | YES/NO | NOTES |
|--|--------|-------|
| - Fueling station(s) | | |
| - Vehicle and equipment maintenance and/or cleaning area | | |
| - Loading/unloading areas | | |
| - Locations used for the treatment, storage, or disposal of wastes | | |
| - Liquid storage tanks | | |
| - Processing and storage areas | | |
| - Immediate access roads used by carriers of raw materials, manufactured products, waste material, or by-products used or created by the site | | |
| - Transfer areas for substances in bulk | | |
| - Machinery | | |
| - Locations and sources of run-on to the site from adjacent property that contains significant quantities of pollutants | | |
| Potential Pollutant Sources | | |
| Are areas described in the SWPPP where industrial material or activities are exposed to stormwater or from which allowable non-stormwater discharges originate? <i>NOTE 1: Industrial material or activities include material handling equipment or activities; industrial machinery; raw material; industrial production and processes; and intermediate products; by-products; final products, and waste products. Material handling activities include the storage, loading and unloading, transportation, disposal or conveyance of any raw material, intermediate product, final product or waste product.</i> | | |
| Are all pollutants or pollutant constituents (e.g., zinc, sulfuric acid, cleaning solvents, motor oil, diesel, gasoline, brake fluid, etc.) associated with each activity identified? <i>NOTE 2: The list must include all pollutants/materials that have been handled, treated, stored, or disposed and that have been exposed to stormwater in the three years prior to the date the SWPPP is prepared or amended.</i> | | |
| Are areas where potential spills and leaks could occur that could contribute pollutants to stormwater discharges and the corresponding outfall(s) that would be affected by such spills and leaks identified in the SWPPP? | | |
| Are all significant spills and leaks of oil or toxic or hazardous substances identified that actually occurred at exposed areas, or that drained to a stormwater conveyance, in the three years prior to the date the SWPPP was prepared or amended? | | |
| Has an evaluation for the presence of unauthorized non-stormwater discharges (see Part 1.1.3) been done and does it include the following information? | | |
| • Date of the evaluation | | |
| • A description of the evaluation criteria used | | |
| • A list of the outfall or onsite drainages points that were directly observed during the evaluation | | |

| | | |
|--|--------------------|----------------------------|
| MSGP Stormwater Pollution Prevention Plan Preparation and Maintenance | No: EPC-CP-QP-2110 | Page 64 of 72 |
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Attachment 2: MSGP SWPPP Review Guidance Checklist Example (cont.)
(Page 3 of 11)

MSGP SWPPP Review Guidance Checklist

| REQUIREMENT | YES/NO | NOTES |
|---|--------|-------|
| <ul style="list-style-type: none"> The action(s) taken, such as a list of control measures used to eliminate unauthorized discharge(s), or documentation that a floor drain was sealed, re-routed to sanitary, or an NPDES permit application was submitted for an unauthorized cooling water discharge. | | |
| Is there documentation of the location of any salt storage piles used for deicing or other commercial or industrial purposes? | | |
| Is all stormwater discharge sampling data collected at the site during the precious permit term summarized in a narrative description? This may include data tables and figures. | | |
| Control Measures to Meet Effluent Limits | | |
| Does the SWPPP indicate whether the following control measure selection and design criteria were considered? | | |
| <ul style="list-style-type: none"> Preventing stormwater from coming into contact with polluting materials is generally more effective, and less costly, than trying to remove pollutants from stormwater | | |
| <ul style="list-style-type: none"> Using control measures in combination which may be more effective than using control measures in isolation for minimizing pollutants in stormwater discharge | | |
| <ul style="list-style-type: none"> Assessing the type and quantity of pollutants, including their potential to impact receiving water quality, is critical to designing effective control measures that will achieve the limits in this permit | | |
| <ul style="list-style-type: none"> Minimizing impervious areas at the facility and infiltrating runoff onsite (including bio-retention cells, green roofs, and impervious pavement, among other approaches) can reduce runoff and improve ground water recharge and stream base flows in local streams, although care must be taken to avoid ground water contamination | | |
| <ul style="list-style-type: none"> Attenuating flow using open vegetated swales and natural depressions can reduce in-stream impacts of erosive flows | | |
| <ul style="list-style-type: none"> Conserving and/or restoring riparian buffers will help protect streams from stormwater runoff and improve water quality | | |
| <ul style="list-style-type: none"> Using treatment interceptors (e.g., swirl separators and sand filters) may be appropriate in some instances to minimize the discharge of pollutants. | | |
| Does the SWPPP indicate how the control measure addresses the potential pollutant sources? | | |
| Are the selection and design considerations for control measures to meet the following non-numeric technology-based effluent limits (see Part 2.1.2) identified in the SWPPP? | | |
| <ul style="list-style-type: none"> Minimize Exposure: All manufacturing, processing and material storage areas (including loading and unloading, storage, disposal, cleaning, maintenance, and fueling operations) must have controls that minimize exposure to pollutant discharges by either locating these industrial materials and activities inside or protecting them with storm resistant coverings. | | |
| <ul style="list-style-type: none"> Use grading, berming or curbing to prevent runoff of contaminated flows and divert run-on away from these areas; | | |

MSGP SWPPP Review Guidance Checklist

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Attachment 2: MSGP SWPPP Review Guidance Checklist Example (cont.)
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| REQUIREMENT | YES/NO | NOTES |
|--|--------|-------|
| - Locate materials, equipment, and activities so that potential leaks and spills are contained or able to be contained or diverted before discharge; | | |
| - Clean up spills and leaks promptly using dry methods (e.g., absorbents) to prevent the discharge of pollutants; | | |
| - Store leaky vehicles and equipment indoors or, if stored outdoors, use drip pans and absorbents; | | |
| - Use spill overflow protection equipment; | | |
| - Perform all vehicle and/or equipment cleaning operations indoors, under cover, or in bermed areas that prevent runoff and run-on and also that capture any overspray; and | | |
| - Drain fluids from equipment and vehicles that will be decommissioned, and, for any equipment and vehicles that will remain unused for extended periods of time, inspect at least monthly for leaks. | | |
| • Good housekeeping (all areas where potential pollutants are exposed to stormwater must be kept clean). | | |
| - Sweep or vacuum at regular intervals or wash down the area and collect and/or treat and properly dispose of the wash down water. | | |
| - Store materials in appropriate containers. | | |
| - Keep all dumpster lids closed when not in use. For dumpsters and roll off boxes that do not have lids and could leak, ensure that discharges have a control (e.g., secondary containment). Part 1.1.3 of the permit does not authorize dry weather discharges from dumpsters or roll off boxes.* | | |
| * You may include extra information, or you may just "cut-and-paste" the effluent limits verbatim into the SWPPP w/out providing additional documentation. | | |
| - Minimize the potential for waste, garbage, and floatable debris to be discharged by keeping exposed areas free of such materials. | | |
| • Maintenance (All industrial equipment, systems and control measures must be maintained in effective operating condition in order to minimize pollutant discharges). | | |
| Perform inspections and preventive maintenance of stormwater drainage, source controls, treatment systems, and plant equipment and systems that could fail and result in contamination of stormwater. | | |
| - Diligently maintain non-structural control measures (e.g., keep spill response supplies available, and personnel appropriately trained). | | |
| - Inspect and maintain baghouses at least quarterly to prevent the escape of dust from the system and immediately removing any accumulated dust at the base of the exterior baghouse.* | | |
| - Cleaning catch basins when the depth of debris reached two thirds (2/3) of the sump depth and keeping the debris surface at least six inches below the lowest outlet pipe.* | | |
| Does the SWPPP contain language indicating immediate action must be taken to minimize pollutant discharges if control measures need routine maintenance? | | |
| Is there language in the SWPPP indicating in instances where control measures need repair or replacement that the facility (or associated representatives thereof) must immediately take all | | |

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Attachment 2: MSGP SWPPP Review Guidance Checklist Example (cont.)
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MSGP SWPPP Review Guidance Checklist

| REQUIREMENT | YES/NO | NOTES |
|---|--------|-------|
| reasonable steps (see Part 4.3.1 for definition) to prevent or minimize the discharge of pollutants until the final repair or replacement is implemented, including cleaning up any contaminated surfaces so that the material will not be discharged during subsequent storm events. Final repairs/replacement of stormwater controls should be completed as soon as feasible but must be no later than the timeframes established in Part 4.3 for corrective actions, i.e., within 14 days or, if that is infeasible, within 45 days. | | |
| Is there language in the SWPPP indicating corrective action must be taken (in accordance with Part 4.0) if a control measure was never installed, was installed incorrectly or not in accordance with Parts 2 and/or 8, or isn't being properly operated or maintained? | | |
| <ul style="list-style-type: none"> • Spill Prevention and Response - The potential for leaks, spills, and other release must be minimized by the development of plans for effective response to such spills if or when they occur in order to minimize pollutant discharges. <ul style="list-style-type: none"> - Plainly label containers (e.g., "Used Oil," "Spent Solvents," "Fertilizers and Pesticides") that could be susceptible to spillage or leakage to encourage proper handling and facilitate rapid response if spills or leaks occur:* - Implement procedures for material storage and handling including use of secondary containment and barriers between material storage and traffic areas. - Develop training on the procedures for expeditiously stopping, containing, and cleaning up leaks, spills, and other releases as soon as possible. - Keep spill kits on-site, located near areas where spills may occur or where a rapid response can be made - Notify appropriate facility personnel when a leak, spill, or other release occurs. Where a leak, spill or other release containing a hazardous substance or oil in an amount equal to or in excess of a reportable quantity established under either 40 CFR Part 110, 40 CFR Part 117, or 40 CFR part 302, occurs during a 24-hour period, you must notify the National Response Center (NRC) at (800) 424-8802 in accordance with the above referenced requirements as soon as you have knowledge of the discharge. - In the event of a spill, does the SWPPP indicate where the contact information is so that it is readily accessible and available? • Erosion and Sediment Controls <ul style="list-style-type: none"> - Does the SWPPP identify how exposed soils will be stabilized to minimize pollutant discharges? - Does the SWPPP identify flow velocity dissipation devices placed at discharge locations to minimize channel and streambank erosion and scour in the immediate vicinity of discharge points? - Does the SWPPP identify structural and non-structural control measure to minimize the discharge of sediment? | | |

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Attachment 2: MSGP SWPPP Review Guidance Checklist Example (cont.)
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MSGP SWPPP Review Guidance Checklist

| REQUIREMENT | YES/NO | NOTES |
|---|--------|-------|
| - If polymers and/or other chemical treatments are used for dust control or stabilization, does the SWPPP must identify the polymers and/or chemicals used and the purpose? | | |
| • Management of Runoff - Does the SWPPP identify how stormwater runoff is diverted, infiltrated, reused, contained, or otherwise reduced to minimize pollutants in the discharge? | | |
| • Salt Storage Piles or Piles Containing Salt - Does the SWPPP identify how salt piles are enclosed or covered? | | |
| - Are controls in place to minimize exposure to stormwater resulting from adding to or removing materials from the salt pile? | | |
| • Non-Stormwater Discharges - Does the SWPPP indicate that personnel will evaluate the site for non-stormwater discharges not explicitly authorized in Part 1.1.3 or covered by another NPDES permit and eliminate the discharge?) | | |
| • Dust Generation and Vehicle Tracking of Industrial Materials - Does the SWPPP indicate dust generation and off-site tracking of raw, final, or waste materials must be minimized in order to minimize pollutant discharges?) | | |
| Control Measures to Meet Numeric Effluent Limitations Guidelines-Based Limits (see Part 2.1.3 and Part 8) | | |
| Are effluent limitations identified for the Sector D facility (Asphalt Paving) (see Part 8.D.4)? | | |
| Are effluent limitations identified for the Sector A facility (Timber Products) (see Part 8.A.7)? | | |
| Control Measures to Meet Water Quality Based Effluent Limits (see Part 2.2 and Part 9.6.2) | | |
| Are the benchmark values (i.e., the Lowest New Mexico Water Quality Standard) listed in MSGP Section 9.6.2.1 identified in the SWPPP? | | |
| Schedules and Procedures - Control Measures | | |
| Does the SWPPP contain a schedule or convention used for determining when pickup or disposal of waste materials occurs? | | |
| Are preventative maintenance procedures (including regular inspections, testing, maintenance and repair) for all control measures included in the SWPPP to avoid situations that may result in leaks, spills, and other releases? | | |
| Are backup practices in place should a runoff event occur while a control measure is off line? | | |
| Is there a schedule or frequency for maintaining all control measures? | | |
| Are procedures included in the SWPPP for preventing and responding to spills and leaks, including notification procedures? | | |
| Are control measures for material handling and storage identified? | | |
| Are clean-up equipment, procedures and spill logs (i.e., reportable and non-reportable spill reports and the MSGP Corrective Action Reporting database) identified? | | |
| Schedules and Procedures - Employee Training | | |
| Are the following employees identified as requiring training? | | |

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Attachment 2: MSGP SWPPP Review Guidance Checklist Example (cont.)
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| REQUIREMENT | YES/NO | NOTES |
|---|--------|-------|
| • Personnel who are responsible for the design, installation, maintenance and/or repair of controls (including pollution prevention measures) | | |
| • Personnel responsible for the storage and handling of chemicals and materials that could become contaminants in stormwater discharges | | |
| • Personnel who are responsible for conducting and documenting monitoring and inspections | | |
| • Personnel who are responsible for taking and documenting corrective actions. | | |
| Are the following identified as elements of required training? | | |
| • An overview of what is in the SWPPP | | |
| • Spill response procedures, good housekeeping, maintenance requirements, and material management practices | | |
| • The location of all controls on the site required by this permit and how they are to be maintained | | |
| • The proper procedures to follow with respect to the permit's pollution prevention requirements | | |
| • When and how to conduct inspections, record applicable findings, and take corrective actions | | |
| Are the following elements of the training plan documented in the SWPPP? | | |
| • Content of the training | | |
| • Frequency/schedule of training | | |
| Are records of completed training kept in the SWPPP? | | |
| Schedules and Procedures - Inspections and Assessments | | |
| Is the procedure identified for conducting routine facility inspections? | | |
| Is the procedure identified for conducting visual assessments? | | |
| For each type of inspection performed (i.e., routine inspection and visual assessments) does the SWPPP identify the person (s) or positions of person(s) responsible for the inspection? | | |
| Does the SWPPP contain an alternative schedule for conducting visual assessments in climates with irregular stormwater runoff discharges (see Part 3.2.3)? | | |
| Are specific items to be covered by the inspection, including schedules for specific outfalls identified in the SWPPP? | | |
| Is the facility claiming an exception as an inactive and unstaffed site? If yes, the facility must include information in the SWPPP that supports this claim as required by Parts 3.1.1, 3.2.3, 6.2.1.3 and 6.2.4.2. That is, the SWPPP must contain a signed certification indicating that there are no industrial materials or activities exposed to precipitation at the site and the NOI must be modified and re-certified. | | |
| Schedules and Procedures - Monitoring | | |
| Does the SWPPP contain documentation of procedures used to conduct benchmark, effluent limitations guidelines and impaired waters monitoring? | | |
| Are locations where samples are collected, including any determination that two or more outfalls are substantially identical, in the SWPPP? | | |
| Are parameters for sampling and the frequency of sampling for each parameter listed? | | |

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Attachment 2: MSGP SWPPP Review Guidance Checklist Example (cont.)
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MSGP SWPPP Review Guidance Checklist

| REQUIREMENT | YES/NO | NOTES |
|--|--------|-------|
| Does the SWPPP contain schedules for monitoring at the facility, including a schedule for alternate monitoring periods for climates with irregular stormwater runoff (see Part 6.1.6)? | | |
| Are numeric control values (benchmark, effluent limitations guidelines, water quality standards) applicable to discharges from each outfall identified? | | |
| Does the SWPPP list procedures for gathering storm event data (see Part 6.1)? | | |
| Schedules and Procedures - Substantially Identical Outfalls (SIOs) | | |
| Does the SWPPP contain the following relative to SIOs? | | |
| • Location of each of the substantially identical outfalls | | |
| • Description of the general industrial activities conducted in the drainage area of each outfall | | |
| • Description of the control measures implemented in the drainage area of each outfall | | |
| • Description of the exposed material located in the drainage area of each outfall that are likely to be significant contributors of pollutants to stormwater discharges | | |
| • An estimate of the runoff coefficient of the drainage areas (low = under 40%, medium = 40% to 65%, high = above 65%) | | |
| • Justification as to why the outfalls are expected to discharge substantially identical effluents | | |
| Do Substantially Identical Outfalls identified on the SWPPP map match those identified in MDMRs? | | |
| Is there language indicating quarterly visual assessments of substantially identical outfalls will be performed on a rotating basis throughout the permit term? | | |
| Is there language indicating quarterly visual assessment of the discharge at one SIO will also apply to the other SIOs? | | |
| Corrective Action Documentation - If an event triggering corrective action is associated with an SIO, did the review of the need for action encompass all related substantially identical outfalls? | | |
| Documentation | | |
| Does the SWPPP contain the following up-to-date and complete inspection, monitoring, and certification records? | | |
| • Copy of NOI submitted to EPA along with any correspondence exchanged between the facility and EPA specific to coverage under this permit. | | |
| • Copy of the acknowledgement you receive from the EPA assigning your NPDES ID. | | |
| • Copy of the MSGP Permit (an electronic copy easily available to SWPPP personnel is also acceptable). | | |
| • Documentation of maintenance and repairs of control measures, including the date(s) of regular maintenance, date(s) of discovery of areas in need of repair/replacement, and for repairs, date(s) that the control measure(s) returned to full function, and the justification for any extended maintenance/repair schedules (See Part 2.1.2.3). | | |
| • All inspection reports, including the Routine Facility Inspection Reports (see Part 3.1.2) and Quarterly Visual Assessment Reports (see Part 3.2.2). | | |

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| REQUIREMENT | YES/NO | NOTES |
|--|--------|-------|
| • Description of any deviations from the schedule for visual assessments and/or monitoring, and the reason for the deviations (e.g., adverse weather or it was impracticable to collect samples within the first 30 minutes of a measurable storm event) (see Parts 3.2.3 and 6.1.5) | | |
| • Corrective action documentation (see Part 4.4) | | |
| • Documentation of any benchmark exceedances and the type of response to the exceedance employed including the following: | | |
| - The corrective action taken; | | |
| - A finding that the exceedance was due to natural background pollutant levels; | | |
| - A determination from EPA that benchmark monitoring can be discontinued because the exceedance was due to run-on; OR | | |
| - A finding that no further pollutant reductions were technologically available and economically practicable and achievable in light of best industry practice consistent with Part 6.2.1.2 | | |
| • Documentation to support any determination that pollutants of concern are not expected to be present above natural background levels if you discharge directly to impaired waters and that such pollutants were not detected in your discharge or were solely attributable to natural background sources. (see Part 6.2.4.1) | | |
| • Documentation supporting that stormwater discharges, allowable non-stormwater discharges, and stormwater discharge-related activities are not likely to adversely affect any species that are federally listed as endangered or threatened ("listed") and are not likely to adversely affect habitat that is designated as "critical habitat" under the Endangered Species Act (see Part 1.1.4.5). | | |
| • Documentation supporting the determination that stormwater discharges, allowable non-stormwater discharges, and stormwater discharge-related activities meet one of the eligibility criteria for historic property preservation (Criterion A, B, C or D) (see Part 1.1.4.6). | | |
| • All Discharge Monitoring Reports and Annual Reports | | |
| • Support for claim that facility has changed its status from active to inactive and is unstaffed with respect to the requirements to conduct routine facility inspections, quarterly visual assessments, benchmark monitoring, and/or impaired waters monitoring. | | |
| Is the SWPPP signed and dated by a duly authorized representative (per Part B.11)? | | |
| Is the Annual Report signed by a duly authorized representative (per Part B.11)? | | |
| SWPPP Modifications | | |
| Where a corrective action triggers a change in any of the control measures or procedures, has the SWPPP been updated within 14 calendar days of completing the corrective action (see Part 4.4)? | | |
| Are SWPPP modifications signed and dated by a duly authorized representative? | | |
| Has the SWPPP been reviewed and does documentation exist as to the modifications made or why none were needed under the following circumstances? | | |

MSGP SWPPP Review Guidance Checklist

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| REQUIREMENT | YES/NO | NOTES |
|--|--------|-------|
| <ul style="list-style-type: none"> An unauthorized release or discharge (e.g., spill leak, or discharge of non-stormwater not authorized by this or another NPDES permit to a water of the U.S.) occurs at your facility. | | |
| <ul style="list-style-type: none"> A discharge violates a numeric effluent limit listed in Table 2-1 and in the sector specific requirements. | | |
| <ul style="list-style-type: none"> The control measures are not stringent enough for the discharge to meet applicable water quality standards or the non-numeric effluent limits in this permit. | | |
| <ul style="list-style-type: none"> A required control measure was never installed, was installed incorrectly, or not in accordance with Parts 2 and/or 8, or is not being properly operated or maintained. | | |
| <ul style="list-style-type: none"> Whenever a visual assessment shows evidence of stormwater pollution (e.g., color, odor, floating solids, settled solids, suspended solids, foam). | | |
| <ul style="list-style-type: none"> Construction or a change in design, operation, or maintenance at your facility that significantly changes the nature of pollutants discharged in stormwater from the facility, or significantly increases the quantity of pollutants discharged. | | |
| <ul style="list-style-type: none"> The average of four quarterly sampling results exceeds an applicable benchmark (see Part 6.2.1.2). If less than four benchmark samples have been taken, but the results are such that an exceedance of the four quarter average is mathematically certain (i.e., the sum of quarterly sample results to date is more than four times the benchmark level) this is considered a benchmark exceedance. | | |
| Public Accessibility of SWPPP | | |
| Is your SWPPP uploaded to the URL provided in the NOI? | | |
| Are subsequent SWPPP modifications (updates), records and all other reporting elements required for the previous year updated no later than 45 days after conducting the final routine facility inspection for the year? | | |
| If you did not upload your SWPPPs to a URL, was the following information provided in the NOI and documented in the SWPPP? | | |
| <ul style="list-style-type: none"> Onsite industrial activities exposed to stormwater, including potential spill and leak areas (see Parts 5.2.3.1, 5.2.3.3 and 5.2.3.5); | | |
| <ul style="list-style-type: none"> Pollutants or pollutant constituents associated with each industrial activity exposed to stormwater that could be discharged in stormwater and/or any authorized non-stormwater discharges listed in Part 1.1.3 (see Part 5.2.3.2) | | |
| <ul style="list-style-type: none"> Stormwater control measures employed to comply with the non-numeric technology-based effluent limits required in Part 2.1.2 and Part 8, and any other measures taken to comply with the requirements in Part 2.2, Water Quality Based Effluent Limitations. If polymers and/or other chemical treatments are used as controls, these must be identified and the purpose explained. | | |
| <ul style="list-style-type: none"> The schedule for good housekeeping, maintenance, and schedule for all inspections required in Part 3. | | |

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MSGP SWPPP Review Guidance Checklist

| REQUIREMENT | YES/NO | NOTES |
|---|--------|-------|
| Are modifications to the SWPPP information required in the four bullets above submitted on a "Change NOI" form no later than 45 days after conducting the final routine facility inspection for the year? | | |
| Corrective Actions | | |
| Are corrective actions documented within 24 hours of becoming aware of such condition? | | |
| Is the condition triggering the need for the corrective action identified? | | |
| Is the date the corrective action was identified captured? | | |
| Was immediate action taken to minimize or prevent the discharge of pollutants? | | |
| In the case of leaks and spills, were response actions, date/time of clean up, notification, etc. documented? | | |

EXAMPLE

ATTACHMENT 24: SPILL LOGS

Spills and Leaks (2021-2022) TA-60 Roads and Grounds/Asphalt Batch Plant

| Date | Spill Location | What Spilled | Quantity Spilled | Corrective Action Taken | Affected Outfalls |
|------------|---|--------------------|-------------------|--|-------------------|
| 9/19/2021 | Heavy equipment staging area NW of Salt Shed 60-0178 | Sugar Beet Extract | 200 Gallons | The cleanup effort started and consisted of adding sand to the semi-solid sugar beet extract and collecting it in two 20 yard metal bins. The affected area on asphalt was also swept. | None |
| 9/27/2021 | South of TA-60-0178 Salt Shed | Hydraulic Fluid | 1/2 gallon | The affected area on base course was cleaned up and the trackless vehicle was delivered to the TA-60 HEY for repairs to the hydraulic fluid lines. | None |
| 10/19/2021 | Paved roadway just past the clean fill yard at TA-60 Sigma Mesa | Diesel Fuel | 1/2 gallon | Affected area on asphalt sprayed with micro-blaze and John Deere backhoe was delivered to TA-60 HEY for repairs. | None |
| 1/25/2022 | West of the Asphalt Batch Plant | Hydraulic Fluid | Less than 1 quart | Affected area on soil was cleaned up. | None |
| 2/15/2022 | Paved staging area North of the old Asphalt Batch Plant. | Hydraulic Fluid | Less than 1/2 cup | Affected area on asphalt was cleaned up. | None |

**Spills and Leaks (2021-2022) TA-60 Roads and Grounds/Asphalt Batch Plant
 Continued**

| Date | Spill Location | What Spilled | Quantity Spilled | Corrective Action Taken | Affected Outfalls |
|-------------|--|--------------------------------------|-------------------------|--|--------------------------|
| 3/16/2022 | In front of the roll-up door on the West end of salt shed 60-0178. | Hydraulic Fluid | Less than ½ cup | In front of the roll-up door on the West end of salt shed 60-0178 there's was a small oil stain on asphalt that was sprayed with micro-blaze. | None |
| 11/3/2022 | Paved staging area North of the old Asphalt Batch Plant. | Water from the concrete washout bin. | 10 Gallons | The dried concrete was cleaned up and drip pans were placed under the leak. Western disposal picked up the concrete washout bin that was leaking. Additional housekeeping and sweeping were performed and the affected area on asphalt was sprayed several times with micro-blaze. | None |
| 11/22/2022 | Paved staging area North of the old Asphalt Batch Plant. | Water from the concrete washout bin. | 25 Gallons | 25 gallons of water was spilled, onto asphalt, while Los Alamos Transit was washing their trucks at the concrete washout bin. UI Personnel put down sand bags | None |

| | | | | | |
|------------|--|-----------------|--------|--|------|
| | | | | on the east side of bin, allowed for the water to dry, and swept the area as part of the cleanup effort. | |
| 12/10/2022 | Paved staging area North of the new TA-60 Asphalt Batch Plant construction site. | Hydraulic Fluid | 1 Pint | Approximately one pint of hydraulic oil spilled on asphalt from a trailer (Gov. E 01319 T) from a leaking component. The spill occurred over the weekend and the source was secured and fixed. Roads & Grounds used absorbents and EPC-CP applied Micro-blaze. | None |
| 12/16/2022 | Small Heavy Equipment Staging Area NW of Salt Shed 60-0178 on Sigma Mesa. | Hydraulic Fluid | 1 Pint | Approximately one pint of hydraulic fluid was released onto soil from mulching equipment (attachments/disconnected hoses). The impacted soil was removed and containerized for proper disposal. The hose was secured to prevent any further leakage. | None |

ATTACHMENT 25: LOCAL PROCEDURES



UI-PROC-70-10-006-R3

Utilities & Institutional Facilities Operations Procedure

Clean Fill Acceptance and Reuse

Review frequency 1 yr 2 yr 3 yr

Issue date 10/29/20 Next review 10/29/23

Process Owner

| | |
|------------------------------|---|
| Leonard F. Sandoval | EPC-CP DEP |
| LEONARD SANDOVAL (Affiliate) | Digitally signed by LEONARD SANDOVAL (Affiliate) Date: 2020.10.28 10:37:04 -06'00' |
| | Z# 114326 |

Reviewed by

| | |
|-----------------------------|--|
| Larry Velasquez | LOG-HERG Group Leader |
| LARRY VELASQUEZ (Affiliate) | Digitally signed by LARRY VELASQUEZ (Affiliate) Date: 2020.10.28 15:33:30 -06'00' |
| | Z# 257145 |

Reviewed by

| | |
|-----------------|--|
| Gabriel Herrera | Utility & Facility Operations Manager |
| Gabriel Herrera | Digitally signed by Gabriel Herrera Date: 2020.10.29 08:41:18 -06'00' |
| | Z# 256541 |

ESH Review

| | |
|------------------------|---|
| Ella Twary | UI ESH Manager |
| ELLA TWARY (Affiliate) | Digitally signed by ELLA TWARY (Affiliate) Date: 2020.10.29 12:09:48 -06'00' |
| | Z# 121989 |

Approved by

| | |
|---------------------------------|-------------------------------------|
| Lawrence Chavez | Deputy Facility Operations Director |
| <i>Lawrence Chavez</i> 10/29/20 | Z# 186199 |

Derivative Classifier Review

| | |
|-------------------------|---|
| James Liljenwall | Classification: VERIFIED UNCLASSIFIED |
| <i>James Liljenwall</i> | Digitally signed by James Liljenwall Date: 2020.10.27 10:00:51 -06'00' |
| | Z# 206614 |

History of Revisions

| Document Number | Issue Date | Action |
|------------------------|-------------------|------------------------------------|
| UI-PROC-70-10-006-R3 | | Review and reissue with changes. |
| UI-PROC-70-10-006-R2 | 11/13/18 | Review and reissue with changes. |
| UI-PROC-70-10-006-R1 | 09/14/15 | Review and reissue. Minor changes. |
| UI-PROC-70-10-006-R0 | 10/15/12 | New procedure. |

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**Utilities & Institutional Facilities
Operations Procedure
Clean Fill Acceptance and Reuse**

1 Purpose

The purpose of this procedure is to describe Utilities & Institutional Facilities (UI, UI-DO) processes for –

- a. Accepting transfer of material from a LANL technical area to the LANL Clean Fill Yard
- AND
- b. Requesting transfer of material from Clean Fill Yard for use at a LANL technical area.

2 Scope/Applicability

1. This procedure does not replace or supersede ADESH-AP-TOOL-704.0, Construction and Demolition Debris. It provides additional details, including documentation required if material is to be accepted at Clean Fill Yard.
2. Persons or organizations generating material and requesting acceptance for its use as clean fill (Acceptance Material Generator) should first refer to the ENV-RCRA Tool 704.0.
3. Affected personnel: EPC-CP DEP; OSH-DS Manager and Superintendent; other OSH-DS personnel; clean fill generators; clean fill requestors.

3 Prerequisites

1. Required training and qualifications:
 - a. Understanding of Utilities & Institutional Facilities (UI-DO) procedures and work processes
 - b. Current on required training
 - c. Understanding of this procedure

4 Precautions and Limitations

Not applicable

5 Equipment, Supplies, etc.

Not applicable

6 Responsibilities

1. Persons performing this procedure are responsible for –
 - Complying with its requirements

- Notifying appropriate supervisory personnel of equipment damage or other conditions that could require corrective action
 - Issuing a PAUSE/STOP Work Order whenever warranted by conditions related to health or safety in accordance with P101-18, Procedure for Pause/Stop Work
2. Managers are responsible for ensuring procedure compliance.

7 Work Steps

OSH-DS maintains the LANL Clean Fill Yard for receipt, storage, and distribution of clean fill. This section sets forth the requirements (a) for accepting material at the facility and (b) for accepting requests to use the material.

7.1 Clean Fill Criteria

1. Clean fill may contain the following materials only:
 - a. Soil, including top soil
 - b. Soil and gravel
 - c. Sand
 - d. Tufa (a soft mixture of silica, calcium carbonate, and/or volcanic ash)
2. Clean fill may NOT contain:
 - a. Pieces larger than 12 inches in diameter
 - b. Material that has been subjected to a spill or release of chemical contaminants, e.g., petroleum products
 - c. Material that has received prior treatment to remediate contaminationAND/OR
 - d. Material containing land-clearing debris, construction and demolition debris, municipal solid waste, radioactive waste, hazardous waste, New Mexico special waste, or any other solid waste not meeting clean fill criteria

For more information on clean fill, click on Definition of Clean Fill under Resources at the UI Clean Fill Management website:

http://int.lanl.gov/environment/p2/clean_fill.shtml

7.2 Acceptance of Material

7.2.1 Acceptance Criteria

1. There must be a need for the material offered.
2. Material must meet Clean Fill Criteria specified in Section 7.1.

3. Material may contain no contaminants that would cause it to be considered waste.
4. The following documentation must be provided:
 - a. Analytical Report containing sample analysis or (if requested by EPC-CP DEP) results of material sampling
AND EITHER
 - b. Acceptable Knowledge (AK) Documentation, provided by Material Generator
OR (IF AK DOCUMENTATION IS NOT AVAILABLE)
 - c. Database Verification, performed by EPC-CP DEP/Verifier, equivalent to acceptable AK Documentation
5. Material $\geq 75 \text{ yd}^3$ may incur equipment and operator charges.
6. Materials found to contain contaminants after receipt may incur reloading and cleanup charges.

7.2.2 Process for Acceptance

Request Acceptance: Material Generator

1. Access Clean Fill Yard Acceptance Form (Attachment A).
 - a. An electronic version of this form is available by clicking on Clean Fill Management web application on the UI Clean Fill Management website:

http://int.lanl.gov/environment/p2/clean_fill.shtml
2. Complete Request portion of form.
3. Obtain and attach:
 - a. Analytical Report.
 - b. Sampling results if requested by EPC-CP DEP.
 - c. Acceptable Knowledge (AK) documentation if available.

EPC-CP DEP can assist Material Generator with the form and attachments.
4. Submit completed form and documentation to EPC-CP DEP.
Form may be submitted by hardcopy in person or electronically.

Characterization/Verification: EPC-CP DEP

1. Complete Characterization/Verification portion of Clean Fill Yard Acceptance Form.
2. Review Analytical Report data as follows:
 - a. Levels presented in NMED Soil Screen Levels June 2006 R4. Also levels presented in Inorganic and Radionuclide Background Data for Soils, Canyon Sediments, and Bandelier Tuff at Los Alamos National Laboratory, Sept 22, 1998.
 - b. If TCLP analytical data provided, compare to regulatory TCLP levels.

-
- c. Ensure that petroleum analytical results meet the following requirements:
 - i. Benzene concentration \leq 10 mg/kg.
 - ii. Total benzene, toluene, ethyl benzene, and xylene isomer (BTEX) concentration \leq 50 mg/kg.
 - iii. Total petroleum hydrocarbon (TRPH) concentration \leq 100 mg/kg
(i.e., is below New Mexico Special Waste levels)
 3. If necessary, perform review of applicable databases (EX-ID, GIS, PRS, PR-ID, and Stack Emission).
 4. If you have concerns based on these analytical results, refer Material Generator to internal Waste Management Coordinator (WMC) for resolution.
 - Do not proceed until all concerns are resolved.
 5. Perform field inspection of material for size, etc. (See Section 7.1, Clean Fill Criteria.)
 6. If material is not acceptable (i.e., reusable), reject it.
 7. If you find that clean fill acceptance criteria are met:
 - a. Sign and date verification.
 - b. Transmit form to OSH-DS ESH Manager (or designee).

Approval: ESH Manager (or designee)

1. Determine if you concur that clean fill acceptance criteria have been met.
 - Base your determination on the AK documentation, applicable databases, and your knowledge of the operation that generated the material.
2. Indicate concurrence/approval by signing and dating certification on form.
 - If not approved, explain why.
3. Return form to EPC-CP DEP.

Transfer of Material: EPC-CP DEP

1. On approval by ESH Manager, advise Material Generator that transfer of material has been approved.
 2. Assist with arrangements for transfer of material to Clean Fill Yard.
 3. Confirm transfer of material.
 4. Complete last section of Clean Fill Yard Acceptance Form.
 - a. If material was rejected, explain why.
 - b. Sign and date.
 5. Send copy of form to Material Generator.
 6. Update Clean Fill Database and Log.
 7. File documentation in Clean Fill Yard Log folder.
-

7.3 Requesting Clean Fill

Soil Requestor

1. Access Soil Reuse Request Form (Attachment B).
 - a. An electronic version of this form is available by clicking on Clean Fill Management web application on the UI-DO Clean Fill Management website:

http://int.lanl.gov/environment/p2/clean_fill.shtml

2. Fill out the top portion of the form and submit to EPC-CP DEP.

Form may be transmitted by hardcopy in person or electronically.

EPC-CP DEP

1. On receipt of Soil Reuse Request Form, determine if requested material is available.
2. If the material is available, arrange for safe transfer to Soil Requestor's site.
3. Confirm transfer of material.
4. Complete bottom section of Soil Reuse Request Form.
 - a. If material was not transferred, explain under Comments.
 - b. Sign and date.
5. Send copy of form to Soil Requestor.
6. Update Clean Fill Database and Log.
7. File documentation in Clean Fill Yard Log folder.

8 Records

Records generated as a result of implementing this procedure are maintained in accordance with the UI records program.

9 Abbreviations, Acronyms, and Terms

| Abbreviation, Acronym, or Term | Definition |
|--------------------------------|--------------------------------------|
| AK | Acceptable Knowledge (Documentation) |
| DEP | Deployed Environmental Professional |
| ESH | Environment, Safety & Health |

| Abbreviation, Acronym, or Term | Definition |
|---|---|
| LO/TO | Lockout/Tagout |
| OSH-DS | Occupational Safety & Health Deployed Services |
| UI, UI-DO | Utilities & Institutional Facilities |
| UI DEP | UI-DO Deployed Environmental Professional (Deployed ESH Services) |
| WMC | Waste Management Coordinator |

10 References

ADESH-AP-TOOL-704.0, Construction and Demolition Debris
New Mexico Solid Waste Rules 20.9.2 – 20.9.10 NMAC

11 Appendices and Attachments

Attachment A. Form 70-10-006.1. Clean Fill Yard Acceptance Form
Attachment B. Form 70-10-006.2. Soil Reuse Request Form

Attachment A. Form 70-10-006.1. Clean Fill Yard Acceptance Form

| | | | |
|--|--------------------------------------|---------------------------|---|
| 1. Soil Acceptance Request. Material Generator to fill in this section, then transmit to UI DEP. | | | |
| Type of soil [e.g. top soil, soil/gravel, sand, tufa] | | Location of soil | |
| Volume [e.g. 55 yd ³] | PR-ID # if known | Excavation ID (EXID) # | |
| Generator/Requestor | Print name | Z-number | Cost codes |
| Title | | Phone | Date |
| Subcontractor Technical Representative (STR) if applicable | | Name | Phone |
| 2. Characterization/Verification. UI DEP/Verifier to fill in this section, then transmit to UI ESH Manager. | | | |
| Analytical Report attached? Yes <input type="checkbox"/> No <input type="checkbox"/> | | If not, why not? | |
| Compare Analytical Report to NMED Soil Screening Levels June 2006 R4. <i>Inorganic and Radionuclide Background Data for Soils, Canyon Sediments, and Bandelier Tuff at Los Alamos National Laboratory, Sept 22, 1998.</i> | | | OK? Yes <input type="checkbox"/> N/A <input type="checkbox"/> |
| Sampling required? Yes <input type="checkbox"/> N/A <input type="checkbox"/> | If yes, sample for what? | | |
| Acceptable Knowledge (AK) Documentation attached? Yes <input type="checkbox"/> No <input type="checkbox"/> | | If not, why not? | |
| Database verification. Required if AK Documentation is not attached. | | Concerns | |
| EX-ID database | No concerns <input type="checkbox"/> | | |
| GIS database | No concerns <input type="checkbox"/> | | |
| PRS database | No concerns <input type="checkbox"/> | | |
| PR-ID database | No concerns <input type="checkbox"/> | | |
| Stack emission d/base | No concerns <input type="checkbox"/> | | |
| Field verification (size) | No concerns <input type="checkbox"/> | | |
| <i>If there are concerns (e.g., Haz, Rad, Asbestos), refer Material Generator to internal Waste Management Coordinator (WMC).</i> | | | |
| UI DEP verifies that all material acceptance criteria have been satisfied. | | Signature | Date |
| 3. Approval. UI ESH Manager (or designee) to fill in this section, then transmit to UI DEP. | | | |
| Approved: Yes <input type="checkbox"/> No <input type="checkbox"/> | | If not approved, why not? | |
| <i>I certify under penalty of law that I am familiar with the operation that generated the material through personal knowledge as well as AK information provided by Material Generator and verified in applicable databases and that to the best of my knowledge and belief the material contains no constituents that would cause it to be considered a waste.</i> | | | |
| UI ESH Manager (or designee) | Signature | Date | |
| 4. Receipt. UI DEP to fill in this section, then transmit to ESH Manager. | | | |
| RECEIVED | REJECTED | If rejected, why? | |
| UI DEP | Signature | Date | |

Attachment B. Form 70-10-006.2. Soil Reuse Request Form

| Soil Requestor to fill in this section | | |
|---|------------------------------------|----------|
| Type of soil requested [e.g. top soil, soil/gravel, sand, tufa] | Soil will be transferred to TA- | |
| Volume [e.g. 1 yd ³ , 5 yds ³] | Excavation ID # | |
| Comments | | |
| Your name | Title | Z-number |
| Signature | Phone | Date |

Submit to UI DEP in person or by email.

| UI DEP to fill in this section | | |
|---|-------|----------|
| Volume [e.g. 1 yd ³ , 5 yds ³] | | |
| Comments | | |
| Released by UI DEP | | |
| Your name | Title | Z-number |
| Signature | Phone | Date |

Provide signed copy to Soil Requestor and to ESH Manager in person or by email.

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LANL Waste Management

1.0 PURPOSE

This document describes the Triad National Security, LLC (Triad) waste management process at Los Alamos National Laboratory (LANL or the Laboratory). Specifically, this policy document describes the Laboratory's system for safely and compliantly characterizing, packaging, storing, treating, disposing, and transporting the various sanitary, hazardous, radioactive, and otherwise regulated wastes generated by LANL activities. This process includes the proper management of contaminated environmental media (e.g., excavated soil) and recyclable materials.

The Laboratory's waste management process has the following goals:

- To systematically plan, document, execute, and manage the Laboratory's various wastes;
- To manage waste from "cradle to grave" (generation to disposal);
- To protect the public, environment, and workers from exposure to radioactive and chemical wastes; and
- To comply with regulatory requirements.

As stated in [P315](#), *Conduct of Operations Manual*, it is the policy of the Laboratory that the primary consideration in operation of its facilities is the safety of the public, workers, environment, and national security assets and to perform its operations effectively. The waste management system described in P409, *LANL Waste Management* and its various implementing procedures meets the [P315](#) intention as it applies to wastes from Laboratory activities.

1.1 Introduction

The Laboratory creates a variety of wastes, each with its own regulatory requirements and disposal pathway. However, the basic waste management process is always the same, as illustrated in Fig. 1.

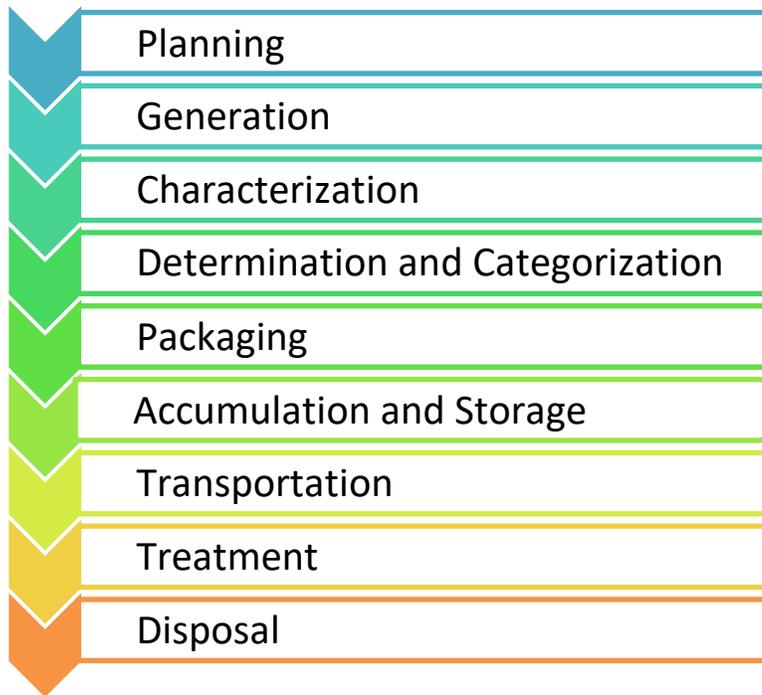


Fig.1. LANL Waste Management Process

This policy document provides a general overview of the Laboratory's waste management process, which includes both implementing activities and compliance assurance/oversight activities. It is the Laboratory's intention that waste management be a seamless collaboration between waste management personnel and other members of the Laboratory's workforce. This working partnership enhances the Laboratory's ability to perform research, improve facilities, and accomplish its mission.

This policy document describes the overall waste management process so the reader will have a general understanding of how waste is managed. Each process step will reference implementing documents (such as Functional Series Documents [FSDs], Administrative Procedures [APs], Technical Procedures [TPs], or Instructional Guidance [IG] documents) that will present the specific requirements, roles, and responsibilities for that activity. By implementing this document and its associated procedures, Laboratory personnel ensure that waste is managed safely, compliantly, efficiently, and in a cost-effective manner. Improper waste management may cause harm to personnel, the public, and the environment, as well as mission delays, rework, disciplinary actions, corrective or preventive actions, rejected waste, fines, or criminal charges. It is every Laboratory worker's responsibility to facilitate and support proper waste management.

1.2 Compliance Implementation and Assurance

Implementing the Laboratory's waste management system is a collaborative effort between Environment and Waste Programs (EWP) personnel and the various Laboratory Directorates. EWP is a program office housing several Laboratory Divisions. It is responsible for coordinating the efforts of all waste management organizations at LANL.

EWP provides Waste Management Coordinators (WMCs) to waste generating organizations and facilities to assist those organizations with planning, characterizing, packaging, and storing waste (Nuclear Process Infrastructure Division [NPI], which is part of EWP, provides these services for transuranic [TRU] and mixed transuranic [MTRU] waste generators). EWP also has waste management subject matter experts (SMEs) that collect waste characterization samples, analyze data, perform formal waste determinations, ship waste, perform waste-related subcontracting, maintain waste permits, and facilitate waste treatment and disposal.

| Table 1. Compliance Implementation and Assurance Activities | |
|--|-----------------------------|
| Implementation Activities | Assurance Activities |
| Planning | Assessments |
| Generation | Requirements Tracking |
| Characterization | Generator Assistance |
| Determination | Nevada Waste |
| Packaging | Disposition |
| Storage | Compliance Oversight |
| Transportation | Waste Verification |
| Treatment | Nevada Waste |
| Disposal | Certification |
| Permitting and Reporting | Procedure Review |
| Pollution Prevention | Project Review |
| Recordkeeping | |
| Training | |
| Difficult Waste Resolution | |

EWP implementation also includes procedure and other document reviews by appropriate SMEs. Procedures and work authorization documents (such as subcontract Exhibit D, Scopes of Work) for LANL projects or activities that involve generating or otherwise managing waste represent interrelated processes as described in [P315](#), *Conduct of Operations Manual*. EWP provides WMCs, NPI personnel, and other SMEs to Responsible Line Managers (RLMs) to review and comment on the waste management aspects of interrelated process documents as part of a settlement agreement with the New Mexico Environment Department (NMED) for a 2014 incident.

In addition, the Laboratory is responsible for independently confirming that waste is being managed compliantly. The Environmental Protection and Compliance Division Waste Management Programs group (EPC-WMP) and NPI personnel perform this independent compliance assurance function, which includes routinely assessing all aspects of waste management. Table 1 shows the various implementation and assurance activities. See [PD-P409-0001](#), *Waste Management Compliance Program*, for more information about the Laboratory's compliance assurance program.

1.3 Guiding Principles

The Laboratory's waste management process is designed to comply with federal and state regulations and Laboratory policies. Compliance with these regulations and policies is demonstrated with documented and defensible evidence. As such, the Laboratory has created the following guiding principles to communicate the intent and goals regarding proper waste management practices.

- All waste generating organizations at LANL will make reasonable and intentional efforts to estimate future waste generation rates.

- All waste generating organizations at LANL will dedicate adequate waste storage space and resources to effectively manage the expected waste.
- All waste generating organizations at LANL will make reasonable and intentional efforts to reduce waste volume and risk.
- The physical, chemical, radiological, biological, and security nature of each waste will be documented at the point of generation, before any dilution, mixing, or other alteration of the waste occurs. Such documentation will be valid and legally defensible.
- All waste will have a documented hazardous waste determination at the point of generation before any dilution, mixing, or other alteration of the waste occurs. All waste will be categorized and managed in a manner consistent with that determination.
- All waste will be safely and compliantly characterized, packaged, stored, treated, disposed, and transported as applicable.
- A comprehensive, timely, and accurate inventory of waste containers packaged for shipment will be maintained in the Laboratory's Waste Compliance and Tracking System (WCATS).
- Waste management processes and services will be continuously improved.

2.0 AUTHORITY AND APPLICABILITY

2.1 Authority

This document is issued under the authority of the Laboratory Director to direct the management and operation of the Laboratory, as delegated to the Associate Laboratory Director for Environment, Safety, Health, Quality, Safeguards, and Security (ALDESHQSS) as provided in the [Prime Contract](#). This document derives from the Laboratory [Governing Policies](#) and implements requirements in the Prime Contract. In addition, this document implements [Department of Energy Acquisition Regulation \(DEAR\) 48 CFR 970.5223-1](#), [Integration of Environment, Safety, and Health into Work Planning and Execution](#); [Department of Energy \(DOE\) Order 4351 Change 2, Radioactive Waste Management](#); [DOE Manual 435.1-1](#) Change 3, [Radioactive Waste Management Manual](#); [Resource Conservation and Recovery Act \(RCRA\)](#) regulations ([40 CFR Parts 260 – 279](#)); [Toxic Substances Control Act \(TSCA\)](#) regulations ([40 CFR Parts 700 to 799](#)); New Mexico Solid Waste regulations ([20 NMAC Chapter 9](#)); and New Mexico Hazardous Waste regulations ([20 NMAC Chapter 4](#)). Further, this document implements provisions related to wastewater provisions of the Clean Water Act regulations ([40 CFR Part 122](#)) and New Mexico water quality regulations ([20 NMAC Chapter 6](#)).

- Issuing Authority: Associate Laboratory Director for Environment, Safety, Health, Quality, Safeguards, and Security (ALDESHQSS)
- Responsible Manager: Environmental and Waste Programs (EWP) Senior Director
- Responsible Office: Environmental and Waste Programs Office (EWPO)

2.2 Applicability

This document and its implementing procedures apply to all Laboratory facilities, workers, programs and activities under the jurisdiction of the management and operations prime contract, and in some cases to LANL waste generating activities off-site. Laboratory workers include employees, guests, students, subcontractors (including lower tier subcontractors) and parent company workers performing work at LANL or other DOE owned or leased facility, in the absence of an equivalent waste management document.

3.0 WASTE MANAGEMENT PROCESS DESCRIPTION

The Laboratory's waste management process is described in the following sections. Specific requirements are listed in implementing documents for each section.

3.1 Waste Planning

As stated in [P300](#), *Integrated Work Management*, all work at LANL is planned work. While meeting Integrated Work Management (IWM) planning requirements, LANL organizations must plan work activities in enough detail to identify potential wastes, estimate waste volume, and prepare for appropriate packaging, storage, transport, treatment, and disposal activities associated with those wastes.

Guiding Principle
All waste generating organizations at LANL will make reasonable and intentional efforts to estimate future waste generation rates.

As described in [FSD-P409-0100](#), *Waste Planning*, effective waste management planning ensures that:

- Pre-start requirements (such as regulatory notifications, permit modifications, and qualified personnel/subcontractors) are met before activities begin.
- There is adequate funding for waste planning, permitting, packaging, characterization, storage, treatment, transportation, and disposal.
- The waste meets the requirements of both [P409-1](#), *LANL Waste Acceptance Criteria (WAC)*, and an appropriate off-site receiving facility's WAC.
- DOE review and approval is completed for any waste that does not have a disposal pathway.
- There is adequate floor space, equipment, and qualified waste management personnel available to accommodate expected waste volumes.
- Responsible personnel and organizations are identified, including the assigned WMC, NPI Acceptable Knowledge (AK) Specialist/Technologist (for TRU and MTRU), waste generator, and alternates.
- Waste management is effectively integrated into work and project schedules.
- Waste management requirements are effectively flowed down to subcontractors, as needed.

Guiding Principle
All waste generating organizations at LANL will dedicate adequate space and resources to effectively manage the expected waste.

Waste planning at the Laboratory involves the use of the [Integrated Review Tool \(IRT\)](#) (that includes the Permits and Requirements Identification (PRID) and Excavation Permit tools) and the planning process described in [FSD-P409-0100](#), *Waste Planning*. The IRT provides generators and managers with information and requirements associated with the wastes they may generate as part of project execution. It also allows waste personnel to identify and communicate work area requirements that may affect the waste. [FSD-P409-0100](#), *Waste Planning*, provides the steps for generating organizations to plan their activities and inform EWP personnel so that adequate space, containers, equipment, personnel, and permits are available to support the work without interruption or delay.

For specific, mandatory waste planning requirements and processes, see [FSD-P409-0100](#), *Waste Planning*, and [SD400](#), *Environmental Management System*.

3.1.1 Reduce Risk through Pollution Prevention and Waste Minimization

As part of planning, organizations and personnel must investigate methods for reducing waste volume, toxicity, and risk. This is done by implementing Pollution Prevention (or P2) strategies, such as those listed below:

Guiding Principle

All waste generating organizations at LANL will make reasonable and intentional efforts to reduce waste volume and risk.



- Best**
 - Eliminate the waste stream entirely.
 - Eliminate radioactive and/or chemical constituents from the waste stream via substitution.
 - Reduce the amount of a waste stream that is generated.
- Least**
 - Reduce the concentration of radioactive and/or chemical constituents in the waste stream.
 - Reuse the waste (or part of the waste) in an appropriate fashion.
 - Recycle the waste.

Contact the EPC Environmental Stewardship (EPC-ES) Pollution Prevention program and see [EPC-ES-GUIDE-016](#), *Pollution Prevention is Source Reduction*, for specific P2 processes.

3.1.2 Identify and Address Difficult Waste Streams

Effective planning should identify difficult or complex waste streams as part of the [IWM](#) “Identify and Analyze Hazards” step. Certain wastes present unique challenges that make them difficult to handle, transport, treat, or dispose of offsite. These wastes must be safely stored onsite until appropriate actions are taken to accommodate final disposition. These difficult waste streams historically have included waste with the following concerns:

- High radioactivity or dose,
- Radioactive gas,
- Classified shapes or materials,
- Explosives contamination,
- Container integrity issues from waste content due to unknown causes, gas generation, bulging, heat, etc.,
- Requirement for permitted waste treatment prior to offsite shipment when that treatment is not currently included in the Laboratory’s Hazardous Waste Facility Permit, and/or
- Presence of a condition or contaminant that is not easily remediated and that prevents the waste from meeting an offsite facility’s WAC.

To mitigate these risks, LANL has developed a Difficult Waste Strategy that includes a process for early identification and evaluation of potential difficult waste streams. All new waste generating processes and any activities involving decommissioning of equipment or facilities shall be reviewed early in the planning phase through [FSD-P409-0100](#), *Waste Planning* and the PRID process to identify potential difficult waste streams. When the potential for generation of a difficult waste is identified, EPC-WMP performs a technical and regulatory evaluation of the waste to determine if there are existing disposition options for the waste or if one must be developed. The difficult waste process (described in [AP-P409-0101](#), *Difficult Waste Streams*) allows for consultation with other LANL entities, as well as off-site personnel if necessary.

Contact EPC and Waste Management (WM) Divisions and see [AP-P409-0101](#), *Difficult Waste Streams*, for assistance.

3.1.3 Identify and Get Approval for Waste with No Disposal Path

DOE M 435.1-1 Chg. 3, *Radioactive Waste Management Manual*, requires that waste planning include preliminary waste characterization prior to generation and requires DOE's pre-authorization if waste with no disposal path must be generated. Although DOE M 435.1-1 Chg. 3 only addresses radioactive waste, it is LANL policy that generating organizations must request and receive DOE written approval to generate any waste that does not have a disposal path BEFORE the waste is generated.

As described in [FSD-P409-0100](#), *Waste Planning*, LANL waste generators must work with their WMCs and EPC-WMP to submit a request to generate waste with No Disposal Path to the EPC Division Office (EPC-DO), who will initiate a formal request to the DOE Los Alamos Field Office. The request to generate waste streams with no disposal path, at a minimum, must address:

- Programmatic need to generate the waste,
- Characteristics and issues preventing the disposal of the waste,
- Safe storage of the waste until disposal can be achieved, and
- Activities and plans for achieving final disposal of the waste.

DOE approval of the request to generate waste without a disposal path may come with action requirements for LANL, such as requirements to develop an action plan or to create a treatment and/or disposal path and may require concurrence and funding from the program sponsor.

See [FSD-P409-0100](#), *Waste Planning*, and [AP-P409-0101](#), *Difficult Waste Streams*, for more information.

3.2 Waste Generation

Waste is any material that is discarded or abandoned, meaning material that is thrown away, destroyed, released into the environment or not put to use. Material that is recycled for reuse is generally not considered to be waste. State and federal statutes and regulations define "waste" as "solid waste." Those same statutes and regulations define the term "solid waste" very broadly to include solids, semi-solids, liquids and contained gases. For Laboratory personnel, though, waste, or solid waste, means any garbage, refuse, sludge, waste-like material, or other abandoned or discarded solid, liquid, semisolid, contained gaseous material resulting from Laboratory activities. This means that any equipment or other material is thrown away, discarded, spent, spilled, released into a drain, or abandoned in storage is a waste. Obsolete chemicals in storage that are no longer usable and that cannot be recycled or reclaimed are also considered to be wastes. In addition, materials that can no longer be used for their intended purpose can be considered "spent" which also qualifies as a "waste."

Guiding Principle

All waste will have a documented hazardous waste determination at the point of generation before any dilution, mixing, or other alteration of the waste occurs. All waste will be categorized and managed in a manner consistent with that determination.

So, when does something become a waste? In the regulations, a material becomes a waste at the "point of generation." This concept is explored in Section 3.2.3 below.

Who decides that something is a waste? Process personnel typically decide that something is a waste. When that happens, the process personnel become *Waste Generators*. However, there are instances when the point of waste generation is reached without process personnel making a specific decision. In those instances, the waste is subject to this policy, even if the waste generator disagrees.

There also will be instances where waste generation is a collaboration between several personnel or organizations. This is discussed in Section 3.2.4 below.

3.2.1 *Who is a Waste Generator at LANL?*

As a *Waste Generating Facility*, the Laboratory is responsible for everything that is or has ever been disposed of as a result of its activities. Outside regulators (such as the NMED, DOE, and the U.S. Environmental Protection Agency) focus on LANL as a single facility. In addition, the Laboratory is responsible for responding to any problems related to our waste (even after disposal) if those problems are directly related to errors made in how we implement our waste management program. The Laboratory's ownership and responsibility for waste extends to wastes generated by subcontractors performing work on our behalf.

Work is performed by individuals within various organizations at the Laboratory. When that work creates waste, then the organization becomes a *Waste Generating Organization* for purposes of this policy. Waste generating organizations are responsible for planning and conducting their work while also ensuring proper waste management. Personnel (including subcontractors) who perform waste generating work for an organization must be properly trained and qualified on both the work to be performed and the waste management aspects of the work. These individuals will be referred to as *Process Personnel* in this document.

Within the Laboratory, anyone who throws material away, destroys it, releases it into the environment, or decides that it is not going to be used is a waste generator. The individuals making these decisions are normally process personnel and/or front line managers who are closest to the work activity. They are individuals who are actively engaged in or are actively overseeing waste generating work activities. Specific job titles for these individuals will vary between different organizations. However, they are typically process personnel such as supervisors, workers, Project Managers, Construction Managers, Maintenance Managers, Team Leaders, program leaders, researchers, chemical owners, and Principle Investigators. Process personnel who are waste generators must be assigned to and maintain the training curricula listed in Section 6.0 below.

For work that is being subcontracted, it is the responsibility of the requesting manager, Project Manager, and Subcontract Technical Representative to identify and assign the Waste Generator role to the appropriate LANL process personnel. Potential subcontractors must be informed of the anticipated waste associated with a project by including a completed Waste Characterization Strategy Form (WCSF) or waste certification statement in the requisition package. See [FSD-P409-0301](#), *Waste Characterization Strategy Form Preparation*, for instructions on completing these documents.

Note:

Individual chemical owners are responsible for determining if their chemicals can and will be used. Any chemicals that cannot or will not be used must be managed as waste.

The subcontractors are responsible for following the requirements set forth in their contractual agreements (subcontracts), including the scope of work and all attachments, exhibits, and/or

addenda. This applies to lower-tier subcontractors as well. LANL is the owner of any waste generated by a subcontractor.

3.2.2 **What Does a LANL Waste Generator Have to do?**

Process personnel who generate waste have six specific responsibilities. They must:

- Plan their work and how they are going to manage the waste (see Section 3.1);
- Characterize their waste by providing accurate descriptions of the chemical, radiological, biological, security, and physical attributes of the waste and by providing a detailed and accurate description of the process that created the waste (see Section 3.3).
- Make a documented waste determination at the point of generation prior to diluting, mixing, or otherwise altering the waste (see Section 3.4);
- Follow WMC or NPI directions to properly package and label their waste (see Section 3.5);
- Follow WMC or NPI directions to properly store their waste (see Section 3.6); and
- Maintain their training (see Section 6.0).

LANL's EWP organization deploys trained WMCs or NPI AK personnel to every facility and/or generating organization to support process personnel and to direct waste management activities for each work activity. WMCs and NPI AK personnel are trained in the regulatory nuances of waste management and provide that service for their customers. NPI personnel also act as waste generators for TRU and MTRU wastes.

Any person who generates a waste must make a "waste determination" at the "point of generation." The waste determination must be made before any dilution, mixing, or other alteration of the waste occurs. Waste determinations are formally documented on Waste Stream Profiles (WSPs) in the Laboratory's Waste Compliance and Tracking System (WCATS) as described in Section 3.4 below. If waste is generated before a WSP is approved in WCATS, waste generators must still document their waste determination at the point of generation.

See [FSD-P409-0200, Waste Generation](#), for specific requirements related to generating waste and fulfilling waste generator responsibilities.

3.2.3 **What is the Point of Generation?**

As stated above, process personnel must make a waste determination at the point of generation before any dilution, mixing, or alteration of the waste occurs. So, what is the point of generation? In a nutshell, it is whenever anyone who throws material away, destroys it, releases it into the environment, or decides that it is not going to be used. Here are some examples of points of generation at LANL:

- Whenever something gets discharged to a wastewater treatment facility (such as LANL's Sanitary Wastewater System or the Radioactive Liquid Waste Treatment Facility);
- When the material becomes "spent" and can no longer be used for its intended purpose without reprocessing it;
- When a decision is made that a chemical or material cannot or will not be used for its intended purpose and will be discarded;
- When a treatment residue exits a treatment unit, including reject water from a water treatment unit;

- When a sludge is deposited in a container, tank, etc.;
- When a residue exits a unit that is otherwise exempt from waste regulations (such as a recycling unit or wastewater treatment unit);
- When a solid waste is mixed with a listed hazardous waste, regardless of whether it was intentional or not;
- When a material has been spilled and is not recoverable for use;
- When construction or demolition is created by room or building construction, renovation, or demolition;
- When spent batteries or light bulbs are removed from service;
- When a material is abandoned (including abandonment in storage);
- When personnel leave the Laboratory or change positions and their materials are no longer needed; or
- When a decision is made that a nuclear material cannot or will not be recovered for reuse and will be discarded.

Some sanitary wastewater (such as from bathrooms, portable toilets, and cafeterias) is exempt from this policy. However, industrial wastewater (such as cooling tower water, boiler blowdown, etc.) that is released to LANL's Sanitary Wastewater System is subject to this policy. See [P409-1](#), *LANL Waste Acceptance Criteria* for information).

See [FSD-P409-0200](#), *Waste Generation*, for a more detailed discussion of points of generation.

3.2.4 Collaborative Waste Generation

There are situations that involve more than one organization or individual in generating a waste. For example, process personnel may determine that a material with special nuclear material is spent and is no longer usable. However, the material does not become a waste until after another organization performs certain tests to determine if the special nuclear material can be recovered. In this instance, the process personnel and the personnel who review the additional data are co-waste generators and both groups are responsible for contributing to the waste characterization effort (Section 3.3).

Likewise, work may be subcontracted to an organization outside of LANL. This frequently occurs for construction, renovation, maintenance, or demolition projects. In these instances, subcontracted process personnel and LANL subcontract oversight personnel are co-waste generators and contribute to waste characterization (Section 3.3) and other waste management activities. In subcontracted work, however, LANL employees sign waste documentation as the owner and waste generator.

Guiding Principle

The physical, chemical, radiological, biological, and security nature of each waste will be documented at the point of generation before any dilution, mixing, or other alteration of the waste occurs. Such documentation will be valid and legally defensible.

3.3 Waste Characterization and Compatibility

In order to complete a waste determination, process personnel must first characterize the waste with WMC and/or NPI assistance. "Waste characterization" is the process of determining and documenting the chemical, physical, radiological, biological, and security attributes of the waste.

Process personnel must provide accurate, complete, and up-to-date information about their waste to their assigned WMC or NPI AK personnel, and assist in entering that information into WCATS. Characterization information includes *Acceptable Knowledge* (list of materials used, products or by-products from an activity, analyses of similar wastes, Safety Data Sheet information, known or expected contaminants, etc.) and/or *Analytical Data* that accurately describes the waste.

Proper waste characterization is the most critical aspect of waste management. Waste cannot be safely handled, stored, treated, disposed of, or transported without a complete understanding of the physical, chemical, and radiological aspects of the material. Waste characterization determines:

- Safety and health hazards associated with the waste;
- Compliant packaging, labeling and transportation requirements;
- Compliant waste management (i.e., treatment, storage and disposal of the waste);
- Potential incompatible chemical reactions between materials, waste containers, and/or co-located wastes;
- Requirements for transporting, treating, and disposing of the waste; and
- The facilities that can accept the waste for storage, treatment, and/or disposal.

Waste characterization must be documented in order to be valid and must be maintained for review by auditors, and state and federal inspectors. As discussed below, LANL meets this requirement by keeping Waste Stream Profiles and associated documentation in WCATS.

Every worker at the Laboratory is responsible for knowing his/her WMC and communicating waste issues to his/her WMC. Moreover, every worker is responsible for providing chemical, radiological, physical, and security information to the WMC upon request. WMCs will document waste characteristics as described below and in various FSDs. Process personnel are responsible for verifying the accuracy of waste characterization information and for signing WCATS waste stream profiles as the LANL Waste Generator before the waste is generated.

For TRU and MTRU, workers are responsible for communicating waste issues and chemical, radiological, physical, and security information to their NPI AK personnel. The NPI AK personnel will document the waste characteristics. The Central Characterization Program (CCP) is responsible for providing radiological characterization information that is used to certify waste for disposal in WIPP. Process personnel are responsible for providing radiological characterization information used for Nuclear Material Control and Accountability, Criticality Safety, and compliance with Technical Safety Requirements.

All process personnel are responsible for understanding the Waste Stream Profiles that they are working under and for maintaining training per Section 6.0.

See the following Functional Series Documents for specific waste characterization requirements and processes:

- [FSD-P409-0300](#), *Waste Characterization and Compatibility*;
- [DOEWIPP-02-3122](#), *Transuranic Waste Acceptance Criteria for the Waste Isolation Pilot Project* (in EDRMS);
- [PA-AP-01146](#), *Acceptable Knowledge Documentation Procedure* (in EDRMS);
- [FSD-P409-0301](#), *Waste Characterization Strategy Form Preparation*;

- [FSD-P409-0302](#), *Site Characterization for Construction, Renovation, and Demolition*; and
- [AP-P409-0303](#), *Waste Sample and Analysis Plan Procedure*.

3.3.1 Re-Characterization

Personnel should never assume that routinely generated wastes only have to be characterized once. Process personnel are expected to review and validate their waste characterization information at least annually to ensure that it is accurate and up-to-date. Further, State and Federal regulations require process personnel to re-characterize the waste whenever there is reason to believe that the process or operation generating the waste has changed or an off-site facility indicates that the waste received does not match the shipping manifests. Process personnel that re-characterize their waste must document these efforts to ensure that it is valid and can be reviewed by auditors, or state and federal inspectors.

At the Laboratory, process personnel must re-characterize their waste whenever:

- There is a change to the waste generating process;
- There is a change to material inputs or suppliers;
- The process owner changes;
- Process authorization documentation is revised;
- Material formulations are revised;
- When the waste stream profile reaches its usable limit;
- The waste has been treated to change a chemical, biological, physical, or radiological aspect;
- There is a significant change to waste management regulations or requirements;
- The waste is repackaged, and secondary materials are added to the container; and/or
- There is a process upset, spill or another abnormal event.

See [FSD-P409-0300](#), *Waste Characterization and Compatibility*, for details.

3.3.2 Special Concerns for Transuranic Waste Characterization

Some LANL operations generate radioactive waste that contains 100 nanocuries (3700 Becquerels) or more of alpha-emitting transuranic radioisotopes per gram of waste. These radioisotopes generally have half-lives greater than 20 years. Unless these wastes meet certain exceptions, they are categorized as Transuranic (TRU) waste. TRU wastes that also are hazardous wastes are called Mixed TRU (MTRU) wastes. TRU and MTRU wastes are disposed of in the Waste Isolation Pilot Project (WIPP) facility pursuant to WIPP's RCRA Permit. There are specific requirements that must be met before Laboratory personnel will be authorized to generate or manage TRU or MTRU waste. These requirements can be found in [DOE/WIPP-02-3122](#), *Transuranic Waste Acceptance Criteria for the Waste Isolation Pilot Plant*, PA-AP-01146, *Acceptable Knowledge Documentation Procedure*, and TA55-RD-539, *TA-55 FOD Waste Management Requirements*.

NPI-DO provides AK Specialists to work with process personnel to properly document Acceptable Knowledge associated with TRU and MTRU waste. AK specialists provide waste documentation to CCP, who characterizes and certifies transuranic (TRU) and mixed transuranic (MTRU) waste destined for the WIPP in accordance with the WIPP Waste Analysis Plan and the WIPP WAC. CCP is a Nuclear Waste Partnership, LLC, program contracted through the National TRU Program at the DOE Carlsbad Field Office. Program interfaces and roles, responsibilities,

authorities, and accountability (R2A2) are described in [CCP-PO-012](#), *CCP/Triad National Security LLC at Los Alamos National Laboratory (LANL) Interface* document.

CCP provides services related to characterization and certification of waste to the WIPP WAC that consist of acceptable knowledge compilation and reporting, data generation, project level validation and verification, records management, and document control. LANL TRU and MTRU waste generators must comply with P409 for all aspects of LANL cradle-to-grave management of waste leading up to its transfer to CCP for final certification and WIPP disposition. Moreover, LANL TRU and MTRU waste generating organizations are required to fulfill their responsibilities as outlined in the [CCP-PO-012](#), *CCP/Triad National Security LLC at Los Alamos National Laboratory (LANL) Interface* Document.

3.3.3 Waste Verification

LANL performs independent waste characterization and verification sampling and analysis on an annual basis for a random set of waste streams. This verification sampling meets Section 2.4.7, Waste Characterization Review, of the *LANL Hazardous Waste Facility Permit*, as well as verification requirements of DOE M 435.1-1 Chg. 3, *Radioactive Waste Management Manual*. In addition, CCP provides waste verification for TRU and MTRU waste destined for WIPP. See [AP-P409-0307](#), *Waste Verification*, for more information.

3.4 Waste Determination and Categorization

Process personnel collaborate with their WMC or NPI AK personnel to develop a Waste Stream Profile (WSP) in WCATS that summarizes and documents the waste characterization information. It is the Laboratory's policy to complete a WSP before the waste is generated.

The Laboratory's waste management personnel will review each WSP and classify the waste into different waste categories, each of which has its own packaging, storage, treatment and/or disposal requirements. This process is called a "Hazardous Waste Determination" and is required by State and Federal statutes and regulations. These regulations also require that the hazardous waste determination be documented in order to be valid.

Guiding Principle

All waste will have a documented hazardous waste determination at the point of generation before any dilution, mixing, or other alteration of the waste occurs. All waste will be categorized and managed in a manner consistent with that determination.

Typical LANL waste categories include:

- Municipal Solid Waste;
- New Mexico Special Waste;
- Universal Waste;
- Hazardous Waste;
- Nonhazardous Waste;
- Low-level Radioactive Waste;
- Mixed Low-level Radioactive Waste (both hazardous and low-level radioactive);
- Transuranic Waste;
- Mixed Transuranic Waste (both hazardous and Transuranic);
- Sanitary Wastewater;

- Polychlorinated Biphenyl Waste;
- Classified Waste;
- Orphan/Legacy Waste;
- High Explosives Contaminated Wastewater;
- Low-level Radioactive Wastewater; and
- Transuranic Wastewater.

By law, waste characterization documentation must be maintained and be made available to state and federal officials upon request. At LANL, we meet this requirement by keeping Waste Stream Profiles and associated documentation in WCATS.

For unplanned waste that must be generated before a WSP is created, process personnel and WMCs (or NPI AK personnel for TRU or MTRU) are required to make a preliminary waste determination and categorization for any wastes that are generated before a waste stream profile is completed. Waste is to be managed according to the preliminary waste determination until the Waste Stream Profile is approved and activated, at which time the process owner and WMC (or NPI for TRU or MTRU) must immediately begin managing the waste per the determination and category identified on the profile (if it is different from the preliminary waste determination).

See [FSD-P409-0400](#), *Waste Determination and Categorization*, for specific requirements and processes associated with this process.

3.5 Waste Packaging

Except for wastewater piped directly to a treatment facility or National Pollutant Discharge Elimination System (NPDES)/NMED Groundwater permitted or authorized outfall, all waste must be packaged to meet the U. S. Department of Transportation requirements for shipping waste in commercial transit. Waste packagings frequently include containers such as drums or waste boxes, but may also include configurations that are not containers (such as palletized and plastic wrapped equipment). All waste containers or packages must be closed or covered except when adding, removing, or consolidating the waste. In addition, all waste containers and packages must be labeled (using weather-resistant labels) to communicate their contents and hazards. Once waste is placed into a DOT shippable container or package, that container/package should be entered into WCATS within three business days.

Guiding Principle
All waste will be safely and compliantly packaged, stored and transported.

See the following documents for specific requirements relating to container procurement, container selection, and proper container closure, labeling, and marking:

- [RD-P409-0202](#), *LLW/MLLW Procurement Requirements*;
- [FSD-P409-0500](#), *Procurement of Waste Packagings for Transportation*; and
- [AP-P409-0702](#), *Weighing and Final Closure of Waste Packages for Transportation*.

3.5.1 **Certifying Waste Packaging**

Radioactive waste destined for the Nevada National Security Site (NNSS) requires independent certification of the waste package and its closure process before it can be shipped and accepted by a receiving facility. LANL has established a certification program to ensure that all NNSS-destined radioactive waste is properly packaged, and meets the NNSS WAC prior to shipment.

See [EPC-WMP-QAP-200](#), *Los Alamos National Laboratory Waste Certification Quality Assurance Plan (QAP)*, for specific requirements.

3.5.2 **Container Requirements**

Waste packages or containers must be in “good condition,” meaning not deteriorating defined as cracked, corroded, severely rusting or with apparent defects that could result in leaking or spilling (i.e., dents, holes or bulges). Waste stored in deteriorating containers must be transferred to a container in good condition.

Containers must also be clearly marked or labeled, meaning that markings are legible and conspicuous enough to be easily readable for audits or inspections by state or federal regulators. Once waste is placed into a DOT shippable container or package, that container/package should be entered into WCATS within three working days.

3.6 **Waste Accumulation and Storage**

The safe accumulation and storage of waste is essential to the Laboratory’s mission. After ensuring that a waste is safely packaged, it must be placed in a location that meets the following criteria:

- Is appropriate for the waste type per [FSD-P409-0600](#), *Waste Accumulation and Storage*;
- Is registered with EPC-WMP (unless noted as exempt in [FSD-P409-0600](#), *Waste Accumulation and Storage*);
- Has an appropriate sign posted describing the type of waste being stored;
- Is able to be inspected;
- Is under the control of process personnel and WMC (or NPI for TRU or MTRU);
- Will control any waste that spills or leaks; and
- Is protected from traffic or inadvertent damage.

Table 2 shows the types of waste storage areas used at LANL. See [FSD-P409-0600](#), *Waste Accumulation and Storage*, for specific requirements pertaining to waste accumulation, storage, and staging areas.

3.6.1 **Inspecting Waste in Accumulation and Storage Areas**

Waste in storage must be inspected routinely to verify that the containers are:

- Are in “good condition;”
- All required labels and markings are present and readable; and
- There are no leaks or spills (see Table 2).

Some waste storage areas are required to be inspected at certain frequencies by law. As a Best Management Practice, the Laboratory requires waste generators, WMCs, or NPI personnel to

inspect all waste storage areas at least monthly. See [FSD-P409-0600](#), *Waste Accumulation and Storage*, for specific inspection requirements.

| Table 2. LANL Waste Storage Area Descriptions | | |
|--|---|-----------------------------|
| Waste Area Type | Description | Inspection Frequency |
| Satellite Accumulation Area (SAA) | An accumulation area for hazardous or mixed waste, under the control of the generator, and located to serve an active process that generates waste. Volumes may not exceed 55 gallons or, for acutely hazardous wastes, 1 quart of liquid or 1 kilogram (2.2 pounds) of solid. | Monthly* |
| Central Accumulation Area (CAA) | An accumulation area where hazardous or mixed waste may be stored for up to 90 days without a permit. | Weekly |
| Universal Waste Area (UWA) | An accumulation area specific to universal wastes, which include certain types of batteries, pesticides, thermostats, lamps, mercury-containing equipment and aerosol cans. Waste must be removed within 1 year. | Monthly* |
| New Mexico Special Waste Storage Area | A storage area for solid wastes with unique handling, transportation, or disposal requirements to ensure the protection of the environment and the health, welfare, and safety of the public. This includes asbestos waste, sludge, petroleum-contaminated soil, and treated formerly characteristic waste. Waste must be removed within 90 days. | Monthly* |
| Polychlorinated Biphenyl (PCB) Storage Area | A location established for the storage of items contaminated with PCBs. If the area is designated as Temporary, then waste must be removed within 30 days. Otherwise, waste must be removed within 90 days. | Monthly |
| Radioactive Waste Staging Area | A location established for staging low-level or TRU radioactive waste. Waste can be added to containers in a staging area. Waste must be removed within 90 days once the container is full, closed, and sealed. Waste must be moved to a registered Radioactive Waste Storage Area or transported to a DOE authorized offsite disposal facility. | Daily** Monthly |
| Radioactive Waste Storage Area | A location established for storing low-level or TRU radioactive waste. Each waste container is certified as being closed and ready for offsite shipment. Waste cannot be added to containers in a storage area. Waste must be removed within 1 year. | Monthly |
| Used Oil Area (UOA) | An area established for storage of used oil intended for recycling. | Monthly* |
| Permitted Waste Storage Areas | An area for the storage of hazardous or mixed waste that is included in LANL's Hazardous Waste Facility Permit. Storage of waste in these units must meet the requirements of LANL's Hazardous Waste Facility Permit. Waste must be removed within 1 year. | Daily** Weekly |
| Solid Waste Storage Areas | An area for the storage of construction and demolition (C&D) waste. Waste must be removed within 1 year. | Monthly* |
| *This is a Best Management Practice assessment not a regulation required inspection. | | |
| **Daily inspections are required when adding, removing, treating, or moving waste. | | |

3.6.2 *Important Dates*

Storing waste for an excessive amount of time frequently leads to container degradation, spills/leaks, and lost waste characterization information. To prevent these and other negative outcomes, regulatory agencies have placed time limits on waste storage. LANL meets these requirements by ensuring that shippable waste containers and packages are entered into WCATS within three working days of starting to place waste into the containers/packages. This allows Laboratory personnel to correctly track time limits and ensure compliant transport, treatment, and disposal of the waste in question. Table 3 lists these dates, along with their implications.

Guiding Principle

A comprehensive and accurate inventory of waste containers packaged for shipment will be maintained real-time in the Laboratory's Waste Compliance and Tracking System (WCATS).

| Table 3. Dates Related to LANL Waste Management | | | |
|--|--|---|---|
| Date | Description | Implications | Critical Actions |
| Origin Date | Date the waste container or item is created in WCATS. | Container is officially in the WCATS inventory. | If created prior to waste generation, WMC must track containers to ensure waste is added. |
| Accumulation Start Date (ASD) | Regulatory date associated with waste placed in CAA, permitted Treatment, Storage, and/or Disposal Facility (TSDF), or UWAs. | CAA, TSDF, UWA time limits are related to the ASD. If wastes with different ASDs are consolidated into one container, the earliest ASD applies to the new container. A new ASD is required when a container is moved from a CAA to a TSDF. The date the waste container is accepted by the TSDF is the new ASD. | Move waste from CAA to a TSDF within 90 days of ASD. Move waste from UWA within 1 year of ASD. Move waste from TSDF within 1 year of ASD. Request NMED approval to exceed 1 year in TSDF if necessary. If mixed low-level (MLLW) or MTRU, add container to Site Treatment Plan if container will exceed 1 year in TSDF. |
| Closed Date (CD) | Date the waste container is full, closed, characterized and a tamper indication device is attached. Regulatory date associated with waste placed in NM Special or radioactive waste storage areas. | Radioactive waste area and NM Special waste area time limits are associated to the CD. | Move waste from NM Special Waste Area within 90 days of CD. Move waste from Rad Staging Area within 90 days of CD. Move waste from Rad Storage Area within 1 year of CD. |
| Out of Service Date (OSD) | Regulatory date associated with waste is placed in PCB waste storage areas. | PCB waste area time limits are associated to the OSD. | Move waste from Temporary PCB Waste Area within 30 days of OSD. Move waste from General PCB Waste Area within 90 days of OSD. |

3.6.3 *Inventorying Waste Containers*

The Laboratory's Hazardous Waste Facility Permit requires that waste descriptions, storage descriptions, and storage dates be maintained in the Facility Operating Record. Other regulations require similar information be kept for other waste types. In addition, many wastes are subject to specific time limits for storage. The Laboratory cannot demonstrate compliance with these requirements unless it maintains an accurate, real-time waste inventory of all the waste containers onsite.

See [FSD-P409-0600](#), *Waste Accumulation and Storage*, for specific requirements and processes for maintaining an accurate inventory at each type of registered waste storage area. Waste shipping and treatment activities also affect inventories at various locations. Requirements and processes for those activities are in [TP-P409-0700](#), *On-Site Waste Management Field Tasks*, [TP-P409-0701](#), *Preparing and Shipping Waste/Material Off-Site*, and [FSD-P409-0800](#), *Waste Treatment Decision Making*.

3.6.4 Permitted Storage of Hazardous Waste

Some LANL facilities that store hazardous waste, mixed low-level waste (MLLW), and MTRU are included in and subject to the requirements of the Laboratory's Hazardous Waste Facility Permit. This permit has specific requirements for container storage, including for aisle spacing, permitted unit boundary designations, timely maintenance, training, and inspections. All work in these permitted facilities (including maintenance, facility renovation, process changes, and new buildings) must be reviewed to ensure that it complies with Permit requirements. Some work or changes may require Permit modifications to be submitted to and approved by the New Mexico Environment Department before the work can be performed or the change implemented. All managers and workers in permitted units must be aware of, comply with, and enforce Permit requirements.

See the [LANL Hazardous Waste Facility Permit](#) to identify affected facilities and to see specific waste storage requirements. Note that the requirements identified in this policy document P409 and its implementing procedures continue to apply in addition to those found in the Permit.

3.6.5 Radioactive Waste Management Basis

Per DOE O 435.1 Chg 2, *Radioactive Waste Management*, LANL is required to provide documentation that controls have been developed, are in place, and are properly implemented for the management of radioactive waste so as to provide near-and-long-term protection of the public, workers, and the environment. This is accomplished through the Laboratory's Radioactive Waste Management Basis (RWMB) program. The RWMB program applies to mixed waste (MTRU and MLLW) in addition to waste that is only radioactive (TRU and LLW).

All facilities that generate, manage and store radioactive wastes must have an approved RWMB. Facilities are required to identify their operations and the radioactive waste they will generate (historical, current and future waste generation), report changes in their facility or waste status (i.e., adding storage areas, increasing waste volumes, etc.) and request a storage extension if it is foreseen that low level radioactive waste cannot be shipped for final disposition within 1 year of the closed date for the waste container. To meet this requirement and to document RWMB requests, Facility Operations Directors, Responsible Line Managers, or their designees complete Form 2107, Radioactive Waste Management Basis Report Form, for review and approval by DOE. The Environmental Protection and Compliance Division is responsible for ensuring compliance of the RWMB program.

See [FSD-P409-0601](#), *Radioactive Waste Management Basis Submittal Process*, for specific requirements.

3.6.6 Site Treatment Plan

Some MLLW and MTRU cannot be moved to a final disposal within one year of being placed into permitted waste storage. This may be due to a number of issues, such as needing a specialized container before being able to transport the waste offsite, having constituents in the waste that are prohibited from transport, inability to treat the waste to meet appropriate Land Disposal Restrictions, or delays in processing the waste to meet disposal facility acceptance criteria. The Federal Facilities Compliance Act requires federal facilities to develop a plan for the removal of mixed waste that must be stored longer than one-year. The Laboratory implements this requirement through a Federal Facility Compliance Order and the LANL Site Treatment Plan (STP). The STP summarizes the status of the stored mixed waste inventory (MTRU and MLLW), describes the progress being made to dispose of the STP inventory, identifies treatment and disposal options for addressing the STP inventory, and provides overall schedules for management and disposition of the mixed waste.

WMCs, NPI, and LANL TSF personnel are required to track their mixed waste inventory and ensure that containers that cannot be shipped offsite within one year have appropriate justifications for why the containers require extended storage. Specific actions to be taken to facilitate off-site treatment and disposal of STP containers and waste streams are addressed through the Laboratory's Difficult Waste Strategy. When necessary, individual containers are automatically added to the STP via WCATS.

3.6.7 Authorized Users

At LANL, when an owner of a registered waste accumulation or storage area grants permission to other process personnel to use his or her registered waste area, the personnel who have been granted access are called *Authorized Users*. The waste area owner and the authorized users have joint responsibility for compliant use of the waste area.

3.7 Waste Transportation

All waste shipped between locations in the Laboratory or offsite from the Laboratory, whether by subcontract or internal personnel, must be documented on a Waste Disposition Request (WDR) or Transuranic Waste Storage Record (TWSR), with the sole exceptions being:

- Municipal waste dumpsters and end dumps routinely picked up by LANL and taken to the Los Alamos County Eco Station; and
- Liquid wastes with approved Waste Stream Profiles that are piped to an onsite liquid waste treatment facility.

For waste other than TRU or MTRU, once waste has been adequately characterized, packaged, and labeled, the WMC will submit a WDR in WCATS to request waste transport to either an onsite or offsite facility. For TRU and MTRU waste, TRU waste shipping personnel will submit a TWSR in WCATS to request waste transport to either an onsite TSF or to WIPP. All waste transported onsite or offsite must meet U.S. Department of Transportation requirements for the material being transported or have an appropriate exemption. Completing the WDR or TWSR ensures that waste containers are tracked in WCATS from initial storage through ultimate disposal. WM-WMS and NPI maintain an inventory of ready-to-use containers, vehicles, personnel, and other resources necessary to provide rapid container deployment to waste generators and efficient removal of filled waste containers.

See the following documents for waste handling and shipping requirements and processes:

- [TP-P409-0700](#), *On-site Waste Management Field Tasks*
- [TP-P409-0701](#), *Preparing and Shipping Waste/Material Off-Site*

3.8 Waste Treatment Prior to Disposal

Hazardous waste and MLLW must be treated to meet applicable Land Disposal Restrictions before they can be disposed of in a hazardous waste landfill. Treatment, when applied to hazardous waste or the hazardous components of mixed waste, is any method, technique, or process that is designed to change the physical, chemical, or biological character or composition of the waste so as to:

- Neutralize it;
- Recover energy from it;
- Recover valuable metals or materials from it;
- Render it nonhazardous or less hazardous;
- Make it safer to transport, store, or dispose of;
- Reduce its volume; or
- Make it more amenable for recovery, storage, or disposal.

All waste treatment **MUST** be pre-approved by EPC-WMP before it is authorized to start.

At LANL, all waste treatment must be pre-approved by EPC-WMP personnel and treatment facility personnel must review characterization data to verify that waste meets the appropriate acceptance criteria before treatment is authorized. Some hazardous waste treatment must be approved by NMED, and included in the Laboratory’s Hazardous Waste Facility Permit. EPC-WMP review and approval will identify which treatment activities require NMED approval and which do not.

Table 4 shows some of the hazardous waste treatments that are allowable at LANL. Note that dilution of a hazardous waste as a substitute for adequate treatment is illegal and never allowed at LANL. See [FSD-P409-0800](#), *Waste Treatment Decision Making*, to request authorization to perform waste treatment.

| Table 4. Examples of Allowable Hazardous Waste Treatment at LANL | | |
|--|---|--|
| Activity | Requirements | Locations |
| Elementary Neutralization | <ul style="list-style-type: none"> ▪ Only applicable to corrosive wastes (D002). ▪ Requires PRID and EPC-WMP authorization. | <ul style="list-style-type: none"> ▪ Only in a tank, container, or transport vehicle. |
| Absorption | <ul style="list-style-type: none"> ▪ Adding absorbent to a hazardous waste, ▪ Absorbent must be compatible with the waste and container. ▪ Requires PRID and EPC-WMP authorization. ▪ Biodegradable absorbents are prohibited. <p>Note: Adding absorbents constitutes treatment and requires a permit. However, this practice can be exempt and undertaken without a permit only if the absorbent material is added to the container of waste at the point of generation and at the same time the waste is first placed into a container. Adding absorbent while re-containerizing the waste is treatment.</p> | <ul style="list-style-type: none"> ▪ Only in containers. ▪ When absorption requires a permit, it may only be performed in locations described in LANL’s Hazardous Waste Facility Permit. |
| Stabilization in Tanks | <ul style="list-style-type: none"> ▪ Requires a PRID. ▪ Must comply with LANL’s Hazardous Waste Facility Permit. ▪ Process changes require a Permit modification. | <ul style="list-style-type: none"> ▪ In locations as described in LANL’s Hazardous Waste Facility Permit. |
| Burning or Detonation | <ul style="list-style-type: none"> ▪ Must comply with LANL’s Hazardous Waste Facility Permit or interim status requirements. ▪ Process changes require a Permit modification. ▪ Is not eligible for generator waste treatment in a CAA. | <ul style="list-style-type: none"> ▪ In locations listed in LANL’s Hazardous Waste Facility Permit. |
| Stabilization in Containers | <ul style="list-style-type: none"> ▪ Must comply with LANL’s Hazardous Waste Facility Permit. ▪ Process changes require a Permit modification. | <ul style="list-style-type: none"> ▪ In locations listed in LANL’s Hazardous Waste Facility Permit. |

LANL

3.8.1 Permitted Hazardous Waste Treatment

Some LANL facilities that treat hazardous waste, MLLW, and MTRU are included in and subject to the Laboratory's Hazardous Waste Facility Permit. This permit has specific requirements for waste treatment, including recordkeeping, treatment process, and verification sampling. All treatment processes in these permitted facilities must be reviewed to ensure that they comply with Permit requirements. Changes to treatment processes and materials require permit modifications to be submitted to and approved by the New Mexico Environment Department before the change is implemented.

All managers and workers in areas subject to the LANL Hazardous Waste Facility Permit must be aware of, comply with, and enforce Permit requirements. See the [LANL Hazardous Waste Facility Permit](#) to identify affected facilities and to see specific waste-treatment permit requirements. The requirements identified in P409 and its implementing procedures continue to apply in addition to those found in the Permit.

3.8.2 Other Waste Treatment

Although treatment of hazardous waste, MLLW, or MTRU are included in and subject to the Laboratory's Hazardous Waste Facility Permit, treatment of nonhazardous or non-mixed waste may be allowable at the Laboratory. For example, size reduction for radioactive wastes or uncontaminated construction debris can be performed if the work is authorized and performed safely. As an additional example, wastewater treatments at the TA-50 Radioactive Liquid Waste Treatment Facility, TA-03 Sanitary Effluent Recycling Facility and the TA-46 Sanitary Wastewater plant are subject to the NPDES and NMED regulations and permit/authorization requirements for wastewater.

Follow the directions shown in [FSD-P409-0800](#), *Waste Treatment Decision Making*, to request authorization to perform nonhazardous waste treatment and to verify that the treatment process is not subject to the Laboratory's Hazardous Waste Facility Permit.

3.9 Waste Disposal

LANL is not permitted, or allowed to dispose of waste onsite and almost all of LANL's waste eventually ends up in an offsite landfill. By sending certified and compliant waste to offsite TSDFs for permanent isolation and disposal, the Laboratory minimizes risk of the release and spread of contamination and exposure to workers, the public, and the environment. Disposal facilities are designed and permitted to isolate waste to prevent chemical and/or radioactive contamination from harming the public or the environment. Each disposal facility is only authorized to accept a limited range of waste that meets specific physical, chemical, radiological and security requirements. These requirements are referred to as Waste Acceptance Criteria (WAC).

Wastes that do not meet any facility's WAC must stay at LANL and can be expensive to manage. All the activities described in this document and its implementing procedures are designed to ensure that work is effectively planned and executed so that the resulting wastes meet an offsite facility's WAC and can be shipped for treatment or disposal.

See [RD-P409-0900](#), *LANL Subcontractor Waste Disposal Requirements*, for more detailed requirements.

3.9.1 Radioactive Waste Disposition

TRU and MTRU waste must be sent to WIPP for disposal. For Low-Level and Mixed Low-Level radioactive waste, DOE Order 435.1 Chg. 2, *Radioactive Waste Management* requires the waste to be disposed of at NNSS. If LLW/MLLW cannot be disposed of at NNSS (due to issues such as

not meeting the WAC, not meeting waste certification requirements, etc.) waste generators must submit an exemption request per [FSD-P409-0905](#), *DOE O 435.1 Exemption Request*.

See the following documents for specific requirements related to radioactive waste disposal:

- [FSD-P409-0201](#), *Radioactive Waste Management*
- [RD-P409-0202](#), *LLW/MLLW Procurement Requirements*
- [FSD-P409-0901](#), *Authorized Release Limits Proposal Process*
- [FSD-P409-0905](#), *DOE O 435.1 Exemption Request*
- [TA55-RD-539](#), *TA-55 FOD Waste Management Requirements*.

3.9.2 Land Application of Environmental Media

Environmental media (such as soil, groundwater, drill cuttings, sediment, etc.) is not technically a waste, but environmental media that has substantial contamination becomes a waste during cleanup activities. When the environmental media is below established cleanup standards and risk levels, the media is often left on-site or re-applied at an approved location as long as doing so also meets other applicable regulatory requirements (such as NM Waste Quality Control Commission requirements and standards). The processes for characterizing and evaluating environmental media for land application on LANL property are described in the following procedures:

- [FSD-P409-0902](#), *Land Application of Drill Cuttings*;
- [EPC-CP-QP-1005](#), *Land Application of Groundwater*; and
- [FSD-P409-0904](#), *On-site Reuse of Environmental Media from Excavation, Construction, and Demolition Activities as Administratively-Controlled Fill*.

Each of these procedures requires an Excavation Permit, which allows a broader environmental review of regulatory requirements.

3.10 Waste Documentation

LANL is committed to maintaining an accurate and complete operating record of its waste management activities. We do this by uploading waste characterization, location information and other documentation into WCATS. Other records are maintained in the Electronic Documents and Records Management System (EDRMS), the Environmental Information Management System (EIM), and in electronic and physical public reading rooms.

Table 5 lists common documents that are included in the operating record. Many of the documents or data items are required by external stakeholders (e.g., EPA, NMED, Department of Transportation, DOE, etc.) while others are established as LANL Policy.

See [AP-P409-1000](#), *Facility Operating Record Requirements for Waste Documentation*, for a complete list of waste management documents, retrieval locations, and requirements for maintenance.

| Table 5. Waste Documentation Examples | |
|---|---|
| Document | Description |
| Waste Stream Profile | <ul style="list-style-type: none"> Summarizes waste characterization information. Documents hazardous waste determination and assigned waste category. |
| Waste Disposal Request | <ul style="list-style-type: none"> Requests waste shipment. |
| TRU Waste AK Document | <ul style="list-style-type: none"> Summarizes waste characterization information for TRU and MTRU wastes. |
| TRU Waste Shipping Record | <ul style="list-style-type: none"> Requests TRU waste shipment. |
| Analytical Data | <ul style="list-style-type: none"> Chemical and radiological analysis reports from on- or off-site analytical laboratories. |
| Characterization Documents | <ul style="list-style-type: none"> Procedures, project plans, lab notebooks, experiment design documents, technical papers, building histories, Waste Characterization Strategy Forms, AK Reviews, NNSS Waste Certification packages, etc. |
| Shipping Papers | <ul style="list-style-type: none"> Manifests, Bills of Lading, and LA Eco Station Day Passes |
| Inspection Records | <ul style="list-style-type: none"> Completed records associated with required inspections of waste storage areas. |
| Noncompliance Reports and Corrective Actions | <ul style="list-style-type: none"> Records associated with inspections, assessments, and similar evaluations that indicate noncompliance with requirements or opportunities for improvement. |
| Permit Documentation | <ul style="list-style-type: none"> Biennial reports, Demolition Notifications, Waste Minimization Reports, etc. |
| Training Records | <ul style="list-style-type: none"> Training materials and records of completed personnel training. |
| Pollution Prevention/Waste Minimization Analysis Reports | <ul style="list-style-type: none"> Reports of P2 investigations. |
| Recycling Reports | <ul style="list-style-type: none"> Summarizes volumes, types, and destinations of materials being recycled. |
| Site Treatment Plan | <ul style="list-style-type: none"> Listing of MTRU and MLLW containers that exceed regulatory storage limit dates. Includes justification of why container is on the STP. |
| DOE O 435.1 Exemption Request | <ul style="list-style-type: none"> Documents rationale for and DOE approval to ship LLW to a commercial LLW disposal facility. |
| Waste Analysis Plans and Sampling & Analysis Plans | <ul style="list-style-type: none"> Describe various sampling and analysis activities. |
| WCATS TRU Waste Questionnaire | <ul style="list-style-type: none"> Summarizes AK for TRU waste to ensure compliance with WIPP WAC. |

3.11 Waste from Emergency Response Implementation

Waste from emergencies, spills, leaks, or other abnormal events is still subject to LANL's waste management program. Local staff, the Los Alamos Fire Department, and/or LANL emergency response personnel will be called-out and will respond to emergency or abnormal events such as:

- Release, spill, or discharge of a hazardous or radioactive substance;
- Identification of an unknown or unstable material that may pose an imminent threat; or
- Uncontrolled fire, explosion, or detonation.

In such cases, Laboratory personnel will invoke a formal process that includes evaluation of the situation, addressing immediate hazards, and putting the situation into a safe configuration. The

response may include implementing the LANL RCRA Permit Contingency Plan, notifying authorities, requesting an emergency waste treatment permit from NMED, and/or reporting the event to authorities.

If you find an abandoned material or waste that has no apparent owner, treat the situation as a potential emergency. Do not move or touch the waste or the container. Isolate the area, call the Emergency Operations Support Center at (505) 667-2400, and contact the area WMC.

Once the emergency or abnormal event is over, emergency response personnel will return the responsibility of the waste over to the WMC(s) assigned to the facility where the event occurred.

4.0 RESPONSIBILITIES

LANL organizations have various position titles and division of responsibilities based on the size of the organization and the complexity of the work being performed. For this document, process personnel are the individuals (including subcontractors) who perform waste generating work for a *Waste Generating Organization*. The Facility Operations Director (FOD) position title is used as the position with overall responsibility for facility operations. The FOD's organization becomes a Waste Generating Organization when facility work generates waste.

4.1 Process Personnel/Waste Generators

- Plan waste generation and management as described in SD400, *Environmental Management System*, and [FSD-P409-0100](#), *Waste Planning*.
- Reduce risk and waste volume as described in [EPC-ES-GUIDE-016](#), *Pollution Prevention is Source Reduction*.
- Identify and get approval for No Disposal Path waste prior to generating it.
- Perform waste generating work safely, securely, and compliantly.
- Collaborate with WMC and/or AK personnel to characterize waste comprehensively and to identify compatibility issues.
- Re-characterize waste when necessary and communicate new characterization information to the assigned WMC or NPI AK personnel.
- Collaborate with WMC or NPI AK personnel to complete and sign Waste Stream Profiles.
- Revalidate and extend ongoing Waste Stream Profiles annually.
- Resubmit Waste Stream Profiles for ongoing wastes as prompted by WCATS.
- Collaborate with WMC and NPI AK personnel to package, mark, and label waste per approved Waste Stream Profiles and WMC/NPI direction.
- Store waste containers per WMC direction as described in [FSD-P409-0600](#), *Waste Accumulation and Storage*.
- Collaborate with assigned WMC or NPI AK personnel to maintain an accurate inventory of waste containers.
- Obtain authorization to perform generator waste treatment per [FSD-P409-0800](#), *Waste Treatment Decision Making*.
- Notify WMC or AK personnel when waste volume approaches accumulation storage limits and needs to be packaged or sealed (e.g., waste in an SAA or a radioactive waste staging [accumulation] area).

- Sign waste documentation and attest to its accuracy, including waste documentation for waste created by onsite subcontractors.
- Complete training as described in Section 6.

4.2 Waste Generating Organizations

- In collaboration with the FOD, NPI, and/or WMC, plan and forecast waste generation and management as described in [SD400](#), *Environmental Management System*, and [FSD-P409-0100](#), *Waste Planning*.
- In collaboration with the WMC, NPI, and/or EPC-ES, reduce risk and waste volume as described in [EPC-ES-GUIDE-016](#), *Pollution Prevention is Source Reduction*.
- Ensure chemicals, materials and wastes are transitioned to new process personnel whenever the original process owner is re-assigned or leaves the Laboratory.
- Hold personnel accountable for performing their waste management responsibilities appropriately.
- With respect to TRU and MTRU waste, comply with the requirements of and perform the actions assigned to the First Line Manager and the Responsible Division Leader/Designee in [CCP-PO-012](#), *CCP/Triad National Security LLC at Los Alamos National Laboratory (LANL) Interface Document*.
- Prohibit personnel from performing generator waste treatment without first receiving approval from EPC-WMP as described in [FSD-P409-0800](#), *Waste Treatment Decision Making*.
- Ensure waste generators are identified for each activity that produces waste.
- Ensure waste generators complete/maintain training as described in Section 6.
- Ensure proper management of waste from work activities.

4.3 Facility Operations Directors

- Act as and fulfill all responsibilities of waste generating organizations for facility maintenance, construction, renovation, and demolition projects.
- In collaboration with waste generating organizations and WMCs, ensure adequate floor space, personnel, funding, and resources for managing wastes.
- Hold organizations accountable for safely and compliantly managing waste in their facilities.
- Create, implement, and maintain Radioactive Waste Management Basis documents, if applicable.
- With respect to TRU and MTRU waste, comply with the requirements of and perform the actions assigned to the Facility Operations Director/Designee in [CCP-PO-012](#), *CCP/Triad National Security LLC at Los Alamos National Laboratory (LANL) Interface Document*.
- Ensure that no waste is improperly disposed of or abandoned in their facilities.
- Confirm that facility-related corrective and preventive actions from internal and external assessments relating to their facilities are corrected in a timely manner and that future issues are prevented.
- Implement processes ensuring that waste management is addressed prior to authorizing work.
- Understand waste permits applicable to their assigned areas and implement processes that ensure compliance with those permit requirements.

- Issue local-level procedures for waste management activities that comply with this policy document and its implementing procedures.
- Route local level procedures for waste management activities through the ALDESHQSS review and approval process.

4.4 ALDESHQSS Directorate

- Ensure there are appropriate staffing and resourcing for Environment and Waste Programs to manage waste from LANL's mission activities.
- With respect to TRU and MTRU waste, comply with the requirements of and perform the actions assigned to the Environmental, Safety, and Health Support and the Institutional Quality & Performance Assurance (IQPA) Division Leader/Designee in [CCP-PO-012](#), *CCP/Triad National Security LLC at Los Alamos National Laboratory (LANL) Interface Document*.

4.5 Environment and Waste Programs

- Maintain and implement P409 *LANL Waste Management*, [P409-1 LANL Waste Acceptance Criteria](#), and related implementing documents.
- Establish waste management requirements, processes, and services.
- Coordinate with DOE to approve generation of No Path Forward wastes.
- With respect to TRU and MTRU waste, comply with the requirements of and perform the actions assigned in [CCP-PO-012](#), *CCP/Triad National Security LLC at Los Alamos National Laboratory (LANL) Interface Document*.
- Confirm that corrective and preventive actions, arising from internal and external assessments relating to waste management, are implemented in a timely manner and that future issues are prevented.

4.6 Waste Management Division

- Plan waste generation and management as described in SD400, *Environmental Management System*, and [FSD-P409-0100](#), *Waste Planning*.
- Support P2 and waste minimization as described in [EPC-ES-GUIDE-016](#), *Pollution Prevention is Source Reduction*.
- Develop and maintain appropriate subcontracts for performing waste management activities.
- Provide support for difficult and no-disposal path waste streams.
- Maintain inventory of ready to use waste containers and equipment for the Laboratory.
- Responsible for all onsite and offsite LANL waste transportation other than TRU and MTRU.
- Serve as the final authority for approving the shipment and disposal of waste.
- Verify completion of the receiving facility documentation and notifications for LANL.
- Evaluate and approve offsite TSDFs.
- Confirm that corrective and preventive actions arising from internal and external assessments are corrected in a timely manner and that future issues are prevented.
- Verify proper waste characterization and packaging before shipping waste onsite or offsite.
- Ensure waste personnel have appropriate support to adequately perform waste management activities.

- Provide trained, qualified, and equipped WMCs and Technicians to waste generating organizations to collaborate with generators and to implement waste management activities.
- Hold personnel accountable for safely and compliantly handling, packaging, transporting, and storing waste.
- Maintain and implement the WMC, WMT, and waste shipper qualification and training programs.
- Develop and maintain waste management training.

4.7 Waste Management Coordinators

- Assist waste generators and waste generating organizations in waste planning activities as described in [FSD-P409-0100](#), *Waste Planning*.
- Assist waste generators and waste generating organizations in P2 activities as described in [EPC-ES-GUIDE-016](#), *Pollution Prevention is Source Reduction*.
- Assist process personnel, including subcontractors, in safely and compliantly handling, packaging, and storing waste.
- Collaborate with process personnel (including subcontractors) to characterize waste and identify compatibility concerns.
- Review WCATS Waste Stream Profiles to verify generator signature and characterization.
- Safely and compliantly package waste.
- Actively manage and inspect registered waste storage areas in their assigned facilities as described in [FSD-P409-0600](#), *Waste Accumulation and Storage*.
- Submit waste disposal requests per [TP-P409-0700](#), *On-Site Waste Management Field Tasks*.
- Communicate with WM-WGS, WM-WMS and EPC-WMP if waste shipment dates are nearing regulatory deadlines for storage.
- Serve as the primary point of contact for facilities and/or FODs on waste management compliance issues, including inspections and assessments
- Disseminate waste management information to generators in their facilities.

4.8 Environmental Protection and Compliance Division

- Plan waste generation and management as described in SD400, *Environmental Management System*, and [FSD-P409-0100](#), *Waste Planning*.
- Administer the Laboratory's Pollution Prevention program.
- Provide trained, qualified, and equipped sample collection personnel.
- Initiate the review of waste characterization documentation when new information or discrepancies in waste characterization are discovered.
- Review CCP waste documentation and characterization, when requested.
- With respect to TRU and MTRU waste, comply with the requirements of and perform the actions assigned to the Environmental Protection & Compliance (EPC) Division Leader/Designee in [CCP-PO-012](#), *CCP/Triad National Security LLC at Los Alamos National Laboratory (LANL) Interface Document*.

- Ensure that NNSS-destined waste packagings are certified by a qualified Waste Package Certifier.
- Certifies waste for disposition at NNSS.
- Review and approve generator waste treatment requests.
- Maintain LANL facility operations certification and offsite receiving facility certification.
- Provide NNSS notification and reporting to regulatory oversight bodies.
- Implement waste compliance assurance activities, including monitoring work in progress and conducting compliance assessments (i.e., through independent assessment and waste verification).
- Coordinate information and compliance requests and activities with regulators.
- Provide regulatory information and institutional guidance on waste compliance requirements.
- Develop and maintain the waste verification program.
- Evaluate and concur with corrective actions regarding waste management. When this involves LLW or MLLW, ensure that evaluation and concurrence is performed by the WCO.
- Apply for and maintain Hazardous Waste Facility Permit.
- Complete and submit Permit related reports.
- Document compliance or noncompliance with characterization/certification requirements and reports to DOE Los Alamos Field Office and DOE-Environmental Management (EM) Los Alamos Field Office.
- Document waste certification status resulting from internal audits and respond to external audits and assessments.
- Provide notification and reporting to client and regulatory oversight bodies.
- Approve exceptions and/or variances to P409 and its implementing FSDs.
- Verify waste personnel (such as Alternate Waste Certification Official and Waste Packaging Certifiers) have appropriate training.
- Evaluate and document qualification to support waste management activities.
- Determine whether facilities and systems are adequate to maintain waste certification until shipment.
- Maintain WCATS.

4.9 Waste Certifying Official

- Serve as the final authority for approving the shipment and disposal of waste to NNSS or commercial LLW or MLLW facilities.
- Verify completion of the receiving facility documentation and notifications for LANL waste sent to NNSS or commercial LLW or MLLW facilities.
- Evaluate and approve commercial LLW or MLLW TSDFs.
- Confirm that corrective and preventive actions related to waste destined for NNSS or commercial LLW or MLLW facilities and arising from internal and external assessments are corrected in a timely manner and that future issues are prevented.
- Verify proper waste characterization and packaging before shipping waste to NNSS.

4.10 NPI Division

- Determine whether TRU waste management facilities and systems are adequate to maintain waste certification until shipment and for continuous waste generation.
- With respect to TRU and MTRU waste, comply with the requirements of and perform the actions assigned to the First Line Managers and Responsible Division Leader/Designee in [CCP-PO-012](#), *CCP/Triad National Security LLC at Los Alamos National Laboratory (LANL) Interface Document*.
- Responsible for all onsite and offsite LANL waste transportation of TRU and MTRU.
- Serve as the final authority for approving the shipment and disposal of TRU and MTRU.
- Certify TRU and MTRU waste shipments to WIPP.
- Perform TRU waste storage, packaging, and characterization at TA-55, RANT, the TRU Waste Facility, and CMR.

4.11 Nuclear Engineering and Nonproliferation Division

- With respect to TRU and MTRU waste, comply with the requirements of and perform the actions assigned to the Nuclear Engineering and Nonproliferation Division Leader/Designee in [CCP-PO-012](#), *CCP/Triad National Security LLC at Los Alamos National Laboratory (LANL) Interface Document*.

4.12 All Personnel

- Upon request, collaborate with waste generators and WMCs to reduce waste volume and risk.
- Upon request, assist waste generators and WMCs in characterizing waste.
- Upon request, collaborate with generators and WMCs to evaluate chemical compatibility concerns.
- Be aware of waste management requirements and notify WMCs of any concerns, including concerns about improper waste generation, characterization, handling, storage, or disposal.

5.0 IMPLEMENTATION

The requirements set forth in this document are effective on the effective date.

6.0 TRAINING

Except for office waste, personnel who generate waste at the Laboratory must be trained and qualified. This ensures that the Laboratory meets its regulatory and contractual requirements. Worker's whose training expires, are prohibited from generating waste, treating waste, or working in a waste management accumulation, staging, or storage area until their training is completed. Performance of waste related activities without proper training is a regulatory compliance violation.

Managers are responsible for assigning their personnel to the training curricula identified in Table 6, below.

Note: Site-specific training may be required, and directed by responsible line managers.

| | |
|------------------------|---|
| CAA | Central Accumulation Area |
| C&D | Construction and Demolition |
| DOE | Department of Energy |
| EDRMS | Electronic Document and Records Management System |
| EIM | Environmental Information Management System |
| EPA | U.S. Environmental Protection Agency |
| EPC | Environmental Protection and Compliance |
| ER | Environmental Restoration |
| ES | Environmental Stewardship |
| EWP | Environment and Waste Program |
| FOD | Facility Operations Director |
| FSD | Functional Series Document |
| IG | Instructional Guideline |
| IM | Issues Management |
| IRT | Integrated Review Tool |
| IWM | Integrated Work Management |
| LANL or the Laboratory | Los Alamos National Laboratory |
| LLW | Low-Level Radioactive Waste |
| MLLW | Mixed Low-Level Waste |
| MTRU | Mixed Transuranic |
| NMED | New Mexico Environment Department |
| NMSA | New Mexico Statutes Annotated |
| NNSS | Nevada National Security Site |
| NMSW | New Mexico Special Waste |
| NPDES | National Pollutant Discharge Elimination System |
| NPI | Nuclear Process Infrastructure |
| OSD | Out of Service Date |
| P2 | Pollution Prevention |
| PCB | Polychlorinated Biphenyl |
| PRID | Permits and Requirements Identification |
| RCRA | Resource Conservation and Recovery Act |
| RD | Requirements Document |
| RWMB | Radioactive Waste Management Basis |
| SAA | Satellite Accumulation Area |
| SME | Subject Matter Expert |
| SOP | Standard Operating Procedure |
| STP | Site Treatment Plan |
| TA | Technical Area |
| ToS | Termination of Safeguards |
| TP | Technical Procedure |
| Triad | Triad National Security, LLC |
| TRU | Transuranic |
| TSCA | Toxic Substances Control Act |
| TSDF | Treatment, Storage, and/or Disposal Facility |
| TSF | Treatment and/or Storage Facility |

| | |
|-------|--------------------------------------|
| TWSR | Transuranic Waste Storage Record |
| UOA | Used Oil Area |
| USI | Unreviewed Safety Issue |
| USQ | Unreviewed Safety Question |
| UWA | Universal Waste Area |
| WAC | Waste Acceptance Criteria |
| WCATS | Waste Compliance and Tracking System |
| WDR | Waste Disposition Request |
| WCO | Waste Certification Official |
| WGS | Waste Generator Services |
| WIPP | Waste Isolation Pilot Plant |
| WM | Waste Management |
| WMC | Waste Management Coordinator |
| WMP | Waste Management Programs |
| WMS | Waste Management Services |
| WMT | Waste Management Technician |
| WSP | Waste Stream Profile |

10.0 HISTORY

| Revision History | | |
|-------------------------|--------------|--|
| 03/27/08 | P409, Rev. 0 | <p>Initial Issue.</p> <p>This document and its linked Waste Management Tools replaces and cancels the Laboratory Implementation Requirements (LIRs) and Laboratory Implementation Guidance (LIG) listed below.</p> <p>LIG 404-00-02, Acceptable Knowledge Guidance LIR 404-00-02, General Waste Management Requirements LIR 404-00-03, Hazardous and Mixed Waste Requirements LIR 404-00-04, Managing Solid Waste LIR 404-00-05, Managing Radioactive Waste LIR 404-00-06, Managing Polychlorinated Biphenyls</p> |
| 05/22/08 | P409, Rev. 1 | <p>Section 6.0 Training: Changed Waste Stream Profile Form Signers to Waste Generators and removed Waste Documentation Forms from the Waste Generators list.</p> |
| 06/04/10 | P409, Rev. 2 | <p>Extensive revision: Clarified training requirements and responsibilities, corrected links to tools, clarified tool creation process, and simplified the document.</p> |
| 03/19/12 | P409, Rev. 3 | <p>This document cancels RN0808, Requirements for Recycling Metal from Areas Posted for Radiological Hazards.</p> <p>Section 6.0: Separated the third bullet into two bullets, reflecting the separate training requirements for persons who work in TSDFs and Remediation Workers, to align with the Laboratory's Hazardous Waste Facility Permit. Added Course #23263, Waste Generation Overview Live, as a training requirement for persons who work in TSDFs and Remediation Workers.</p> |
| 04/10/13 | P409, Rev. 4 | <p>Removed references to canceled Form 1346, Waste Profile Form, which has been replaced by the Waste Stream Profile (found in the Waste Compliance and Tracking System [WCATS]).</p> <p>Section 5.0: Updated to reflect effective date of May 28, 2013 for applicable nuclear, high- and moderate-hazard facilities and accelerators.</p> <p>Performed three-year review in accordance with PD311, Requirements System and Hierarchy.</p> <p>Updated links, titles, and acronyms.</p> |
| 07/30/15 | P409, Rev. 5 | <p>Performed three-year review in accordance with PD311, Requirements System and Hierarchy.</p> <p>This document cancels P930-2, Radioactive Waste Certification Program and P930-3, Offsite Shipment of Chemical, Hazardous, or Radioactive Waste. Although this is not "a new document," it is a complete re-write of P409, Rev. 4 as the requirements from P930-2 have been merged with this document. P409 title has also changed to "LANL Waste Management."</p> |

| | | |
|----------|---------------------------------|---|
| 4/21/17 | P409, Rev. 6 | <p>Clarified several sections and consolidated requirements. Replaced ENV and WM with EPC throughout the document.</p> <p>Section 3.1: Corrected Deployed Environmental Professional (DEP) responsibility, separated waste characterization and processing review responsibilities, clarified FSD tool types, and added FSD references for ADESH-AP-TOOL-704, Construction and Demolition Debris, and ADESH-AP-TOOL-316, LLW/MLLW Procurement Requirements.</p> <p>Section 3.2.1b: Added reference to ADESH-AP-TOOL-906, Treatment by Waste Generator.</p> <p>Section 3.3: Clarified packaging requirements for NNSS and non-NNSS waste.</p> <p>Section 3.4.3: Clarified language and process.</p> <p>Section 4.0: Clarified responsibilities and incorporated roles, responsibilities, authorities, and accountability (R2A2s) listed in P313, Roles, Responsibilities, Authorities, and Accountability.</p> <p>Section 11.1: Deleted all references to ADESH-AP-TOOLS and replaced with reference to P409 Waste Management Tools http://int.lanl.gov/org/padops/adesh/environmental-protection/quality-assurance/p409-tools.shtml</p> |
| 11/29/17 | P409, Rev. 7 | <p>Section 1.0: Clarified LANL's waste management requirements for waste generators.</p> <p>Section 2.0: Defined the term "Worker" and removed reference to ADESH-AP-TOOL-300, Radioactive Waste Management.</p> <p>Section 3.0: Edited and revised language throughout Section 3.0 and moved paragraphs within Section 3.0 to help with readability.</p> <p>Sections 6.1, 6.4, and 6.5: Clarified existing training frequency requirements.</p> <p>Sections 6.2 and 6.3: Clarified requirements for <90-day radioactive waste areas and for CAAs.</p> <p>Section 6.6: Edited and revised language to include existing Emergency Responder's training.</p> <p>Section 6.7: Edited and revised language of Waste Shippers [existing] training requirements.</p> <p>Section 11.0: References updated.</p> <p>Updated Acronyms and hyperlinks.</p> |
| 04/11/18 | P409, Rev. 7 Admin. Change 1 | <p>Section 3.1: Updated reference section number from 3.9 to 3.8.</p> <p>Section 3.4.2: Fixed typo, "jone" to "one."</p> <p>Section 3.7.1: Updated title from WM-PROG-QP-250, Waste Assessments to EPC-WMP-QP-250, Waste Management Programs Assessments.</p> <p>Section 3.7.2: Removed CTAP (Compliance Technical Assistance Program)</p> <p>Updated links and references.</p> |
| 07/26/18 | P409, Rev. 7 Admin. Change 2 | <p>Updated Section 11.0 to list Functional Documents created by this Institutional Document.</p> |
| 11/01/18 | P409, Rev. 7 Admin. Change 3 | <p>Updated organizational names throughout document. Updated Sections 11.0, References, and 14.0, Contact.</p> |

| | | |
|----------|---------------------------------|---|
| 04/11/19 | P409, Rev. 7 Admin. Change 4 | Updated hyperlinks and cross-references regarding P409 Waste Management Tools. Section 3.2.2: Deleted first paragraph, which referenced ADESH-AP-TOOL-306, a discontinued P409 Waste Management Tool. Section 11.0: Deleted discontinued P409 Waste Management Tools. |
| 02/18/20 | P409, Rev. 7 Admin. Chg. 5 | Section 11.0: Fixed hyperlinks to P409 Tools. |
| 04/30/21 | P409, Rev. 8 | Published as PROVISIONAL until 04/30/2021. Revision 8 entailed an extensive review and revision with all sections modified. The effort was implemented to create a single Waste Operations Program and to address critical issues related to NMCA, nuclear safety, criticality safety, waste, and classification enhancements. The revision served to clarify cradle-to-grave process and point to implementing procedures that have been generated as part of this effort. This document established new policies to clarify the waste generator role and collaborative waste generation. |
| 10/01/21 | P409, Rev. 8 Admin. Chg. 1 | Section 3.3: Corrected procedure number, FSD-P409-0303, <i>Waste Sample and Analysis Plan Procedure</i> to AP-P409-0303 , <i>Waste Sample and Analysis Plan Procedure</i> . Section 3.10: Corrected procedure number, FSD-P409-1000, <i>Facility Operating Record Requirements for Waste Documentation</i> to AP-P409-1000 , <i>Facility Operating Record Requirements for Waste Documentation</i> . Section 7.0: Corrected procedure number, FSD-P490-7000, <i>Requesting and Approving Variances or Exceptions to P409 Related Implementing Documents</i> , should have been AP-P409-7000 , <i>Requesting and Approving Exceptions or Variances to P409 Related Implementing Documents</i> . Corrected title of FSD-P409-0800 referenced throughout document. Updated hyperlinks. |
| 11/30/21 | P409, Rev. 8 Admin. Chg. 2 | Moved many of the prime contract requirements from Section 11.2 to Section 11.0. Throughout document-updated Contact Section, references, hyperlinks. |
| 01/07/22 | P409, Rev. 8 Admin. Chg. 3 | Updated DOE M 435.1-1 to Chg 3. Updated DOE O 435.1 to Chg 2. |

11.0 REFERENCES

- [Prime Contract](#):
 - [10 CFR](#), *Energy*
 - [40 CFR](#), *Environmental Protection*
 - [40 CFR Part 122](#), *EPA Administered Permit Programs: The National Pollutant Discharge Elimination System*
 - [40 CFR Part 279](#), *Standards for the Management of Used Oil*
 - [40 CFR Parts 260 to 273](#), *Hazardous Waste Management System*
 - [40 CFR Parts 700 to 799](#), *Toxic Substances Control Act regulations*

- [48 CFR](#), Integration of Environment, Safety, and Health Into Work Planning and Execution
- [49 CFR](#), *Transportation*
- [DEAR 970.5223-1](#), *Integration of Environment, Safety, and Health into Work Planning and Execution*
- [DOE M 435.1-1 Chg. 3](#), *Radioactive Waste Management Manual*
- [DOE O 414.1D, Adm. Chg. 2](#), *Quality Assurance*
- [DOE O 435.1 Chg. 2](#), *Radioactive Waste Management*
- [DOE O 436.1](#), *Departmental Sustainability*
- [DOE O 458.1 Chg. 4](#), *Radiation Protection of the Public and the Environment*
- [DOE O 460.2A, Departmental Materials Transportation and Packaging Management](#)
- [DOE O 474.2 Chg. 4](#), *Nuclear Material Control and Accountability*
- [LANL Hazardous Waste Facility Permit](#)
- [NA SD 430.1](#), *Real Property Asset Management*

11.1 Implementing Documents

The following documents implement this Institutional Document.

- [AP-P409-0101](#), *Difficult Waste Streams*
- [AP-P409-0303](#), *Waste Sample and Analysis Plan Procedure*
- [AP-P409-0304](#), *Listed Source Review Procedure for Managing Environmental Media*
- [AP-P409-0306](#), *Identifying and Assessing Newly Created or Discovered Potential Release Sites*
- [AP-P409-0307](#), *Waste Verification*
- [AP-P409-0702](#), *Weighing and Final Closure of Waste Packages for Transportation*
- [AP-P409-1000](#), *Facility Operating Record Requirements for Waste Documentation*
- [AP-P409-7000](#), *Requesting and Approving Exceptions or Variances to P409 Related Implementing Documents*
- EPC-CP-QP-1005, *Land Application of Groundwater*
- [EPC-WMP-QAP-200](#), *Los Alamos National Laboratory Waste Certification Quality Assurance Plan (QAP)*
- [FSD-P409-0100](#), *Waste Planning*
- [FSD-P409-0102](#), *Work Conducted Within or Near a Consent Order Site*
- [FSD-P409-0200](#), *Waste Generation*
- [FSD-P409-0201](#), *Radioactive Waste Management*
- [FSD-P409-0300](#), *Waste Characterization and Compatibility*
- [FSD-P409-0301](#), *Waste Characterization Strategy Form Preparation*
- [FSD-P409-0302](#), *Site Characterization for Construction, Renovation, and Demolition*

- [FSD-P409-0305](#), *Acceptable Knowledge Package Requirements for NNSS Low-Level/Mixed Low-Level Waste*
- [FSD-P409-0400](#), *Waste Determination and Categorization*
- [FSD-P409-0500](#), *Procurement of Waste Packagings for Transportation*
- [FSD-P409-0600](#), *Waste Accumulation and Storage*
- [FSD-P409-0601](#), *Radioactive Waste Management Basis Submittal Process*
- [FSD-P409-0800](#), *Waste Treatment Decision Making*
- [FSD-P409-0901](#), *Authorized Release Limits Proposal Process*
- [FSD-P409-0902](#), *Land Application of Drill Cuttings*
- [FSD-P409-0904](#), *On-site Reuse of Environmental Media from Excavation, Construction, and Demolition Activities as Administratively-Controlled Fill*
- [FSD-P409-0905](#), *DOE Order 435.1 Exemption Request*
- [PA-AP-01146](#), *Acceptable Knowledge Documentation Procedure*
- [PA-AP-01216](#), *Acceptable Knowledge Technologist Procedure*
- [PA-DOP-01450](#), *Packing Oversized TRU Waste into Approved Containers*
- [PA-DOP-01456](#), *Packing TRU Waste into Approved Containers*
- [PA-DOP-01665](#), *Characterization and Absorption of Liquids*
- [PD-P409-0001](#), *Waste Management Compliance Assurance Program Description*
- [RD-P409-0202](#), *LLW/MLLW Procurement Requirements*
- [RD-P409-0900](#), *LANL Subcontractor Waste Disposal Requirements*
- [TA55-RD-539](#), *TA-55 FOD Waste Management Requirements*
- [TP-P409-0700](#), *On-Site Waste Management Field Tasks*
- [TP-P409-0701](#), *Preparing and Shipping Waste/Material Off-Site*

11.2 Guidance Documents

- [IG-P409-0002](#), *Waste Management Glossary*
- [IG-P409-0211](#), *Management of Office Waste*
- [IG-P409-0212](#), *Non-Empty Gas Cylinders or Cryogenic Dewars Management*
- [IG-P409-0213](#), *High Explosives Waste and Wastewater Management*
- [IG-P409-0214](#), *Hazardous Solvent Contaminated Wipes/Rags*
- [IG-P409-0215](#), *Construction and Demolition Debris Management*
- [IG-P409-0216](#), *Polychlorinated Biphenyl (PCB) Waste Management*
- [IG-P409-0217](#), *Nonhazardous Waste Management*
- [IG-P409-0218](#), *Management of Radioactive Sealed Sources as Waste*
- [IG-P409-0219](#), *Unbound Engineered Nanoparticle (UNP) Waste Management*
- [IG-P409-0220](#), *Antifreeze for Recycle*
- [IG-P409-0221](#), *Alkaline and Carbon Zinc Batteries*

- [IG-P409-0222](#), *Lead Acid/Gel Cell Batteries Managed by Salvage as Recyclable Material*
- [IG-P409-0223](#), *Circuit Boards for Recycle*
- [IG-P409-0224](#), *Excavated Material Management*
- [IG-P409-0225](#), *Paint Waste Management*
- [IG-P409-0226](#), *Refrigerant-Containing Equipment Management*
- [IG-P409-0227](#), *Scrap Metal for Recycle*
- [IG-P409-0228](#), *Management of Waste Sharps*
- [IG-P409-0229](#), *Empty Containers*
- [IG-P409-0230](#), *Management of New Mexico Special Waste*
- [IG-P409-0231](#), *Roofing Waste Management*
- [IG-P409-0232](#), *Beryllium Waste Management*
- [IG-P409-0233](#), *Management of Universal Waste*
- [IG-P409-0234](#), *Management of Used Oil for Recycle*
- [IG-P409-0235](#), *Hazardous Waste Determinations for Waste Generators*

11.3 Other References

- [CCP-PO-012](#), *CCP/Triad National Security LLC at Los Alamos National Laboratory (LANL) Interface Document*
- [DOEWIPP-02-3122](#), *Transuranic Waste Acceptance Criteria for the Waste Isolation Pilot Project*
- Energy Facility Contractors Group, *Termination of Safeguards Controls Best Business Practices*
- [EPC-ES-GUIDE-016](#), *Pollution Prevention is Source Reduction*
- EPC-WMP-QP-250, *Waste Management Program Assessments*
- [20 NMAC Chapter 4](#), *Hazardous Waste*
- [20 NMAC Chapter 6](#), *Water Quality*
- [20 NMAC Chapter 9](#), *Solid Waste*
- [P300](#), *Integrated Work Management*
- [P315](#), *Conduct of Operations Manual*
- [P322-3](#), *Performance Improvement from Abnormal Events*
- [P322-4](#), *Issues Management*
- [P328-2](#), *Independent Assessment*
- [P328-3](#), *Management Assessment*
- [P409-1](#), *LANL Waste Acceptance Criteria*
- [P781-1](#), *Conduct of Training*
- [P850](#), *Subcontract Technical Representative Procedure*
- [PD1020](#), *Document Control and Records Management*

- [PD1020-2](#), *Laboratory Document Control*
- [PD311](#), *Requirements System and Hierarchy*
- [Registered Waste Areas database](#)
- [SBP-112-3](#), *Unreviewed Safety Question (USQ) Process*
- [SD400](#), *Environmental Management System*
- [WCATS](#), *Waste Compliance and Tracking System*

12.0 FORMS

[Form 2107](#), *Radioactive Waste Management Basis Report Form*

Other forms related to this document are identified in their respective implementing procedures.

13.0 ATTACHMENTS

There are no attachments associated with this document.

14.0 CONTACT

Environmental Protection and Compliance-Division Office (EPC-DO)

Telephone: (505) 667-2211

Location: TA-0, Building 480

Website: <https://int.lanl.gov/org/ddops/aldeshqss/environmental-waste-programs/environmental-protection-compliance/index.shtml>

Material Safety Data Sheet



Zep Inc.
1310 Seaboard Industrial Blvd.
Atlanta, GA 30318
1-877-I-BUY-ZEP (428-9937)
www.zep.com

Section 1. Chemical Product and Company Identification

Product name E2008 ASPHALT RELEASE (XT-3199)
Product use Asphalt Release Agent
Product code F464
Date of issue 02/13/09 **Supersedes** 06/17/99

Emergency Telephone Numbers

For MSDS Information:
Compliance Services 1-877-I-BUY-ZEP (428-9937)

For Medical Emergency
(877) 541-2016 Toll Free - All Calls Recorded

For Transportation Emergency
CHEMTREC: (800) 424-9300 - All Calls Recorded
In the District of Columbia (202) 483-7616

Prepared By
Compliance Services
1420 Seaboard Industrial Blvd.
Atlanta, GA 30318

Printing date: 02/13/09

Section 2. Hazards Identification

Emergency overview

CAUTION !

MAY CAUSE EYE IRRITATION.

*Hazard Determination System (HDS): Health, Flammability, Reactivity



NOTE: MSDS data pertains to the product as delivered in the original shipping container(s). Risk of adverse effects are lessened by following all prescribed safety precautions, including the use of proper personal protective equipment.

Acute Effects

Routes of Entry

Eye contact.

Eyes May cause eye irritation. Inflammation of the eye is characterized by redness, watering and itching.

Skin No known acute effects of this product resulting from skin contact. Prolonged or repeated contact may dry skin and cause irritation.

Inhalation No known acute effects of this product resulting from inhalation.

Ingestion No data on acute toxicity of the product when ingested. May irritate digestive tract.

Chronic effects

There is no known chronic effect after exposure to this product.

Carcinogenicity Ingredients: Not listed as carcinogen by OSHA, NTP or IARC.

Additional Information: See Toxicological Information (Section 11)

Section 3. Composition/Information on Ingredients

OSHA's Hazard Communication Standard (29 CFR 1910.1200) does not require the listing of any ingredient for this product.

Section 4. First Aid Measures

Eye Contact Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.

Skin Contact Rinse with plenty of running water. If irritation persists, get medical attention.

Inhalation Inhalation not likely under normal use conditions.

Ingestion Do not induce vomiting unless directed to do so by medical personnel. If swallowed, seek medical advice immediately and show this container or label.

Section 5. Fire Fighting Measures

National Fire Protection Association (U.S.A.)

Flash Point Not applicable
Flammable Limits Not applicable
Flammability Non-combustible.
Fire hazard Not applicable.
Fire-Fighting Procedures Not applicable.



Section 6. Accidental Release Measures

Spill Clean up Hazard of slipping on spilled product. Absorb with an inert material and place in an appropriate waste disposal container. Finish cleaning the spill area with running water.

Section 7. Handling and Storage

Handling Avoid contact with eyes. Do not ingest. Wash thoroughly after handling.

Storage Keep container tightly closed. Store between the following temperatures: 40°F - 120°F (4.4°C - 49°C). Keep out of the reach of children. Protect from freezing.

Section 8. Exposure Controls/Personal Protection**Product name****Exposure limits**

No exposure limit value known.

Personal Protective Equipment (PPE)

Eyes Recommended: Safety glasses.



Body No special protective clothing is required. For prolonged or repeated handling, use gloves.

Respiratory No special measures required.

Section 9. Physical and Chemical Properties

Physical State Thin liquid

Color Clear. Colorless.

pH 7.5 - 8.5

Odor Mild.

Boiling Point 104.44°C (220°F)

Vapor Pressure Not determined.

Specific Gravity 1

Vapor Density Not determined.

Solubility Miscible in water.

Evaporation Rate 1 compared with Water

VOC (Consumer) 0 (g/l).

Section 10. Stability and Reactivity

Stability and Reactivity The product is stable.

Incompatibility None known.

Hazardous Polymerization Will not occur.

Hazardous Decomposition Products None identified.

Section 11. Toxicological Information**Acute Toxicity**

Not available.

Section 12. Ecological Information

Environmental Effects No known significant effects or critical hazards.

Aquatic Ecotoxicity

Not available.

Section 13. Disposal Considerations**Waste Information**

Waste must be disposed of in accordance with federal, state and local environmental control regulations. Consult your local or regional authorities for additional information.

Waste Stream Non-hazardous waste

Section 14. Transport Information

| Regulatory information | UN number | Proper shipping name | Classes | PG* | Label |
|---------------------------|----------------|----------------------|----------------|-----|-------|
| DOT Classification | Not regulated. | None. | - | - | |
| IMDG Class | Not available. | Not available. | Not available. | - | |

NOTE: DOT classification applies to most package sizes. For specific container size classifications or for size exceptions, refer to the Bill of Lading with your shipment.

PG* : Packing group

Section 15. Regulatory Information**U.S. Federal Regulations**

SARA 313 toxic chemical notification and release reporting:

No products were found.

Clean Water Act (CWA) 307: No products were found.

Clean Water Act (CWA) 311: No products were found.

Clean Air Act (CAA) 112 regulated toxic substances: No products were found.

All Components of this product are listed or exempt from listing on TSCA Inventory.

State Regulations

California Prop 65 No products were found.

Section 16. Other Information

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

*NOTE: Hazard Determination System (HDS) ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although these ratings are not required on MSDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HDS ratings are to be used with a fully implemented program to relay the meanings of this scale.

No: P101-14

Revision: 10

Issued: 06/07/21

Effective Date: 06/07/21

Chemical Management

1.0 PURPOSE

The purpose of this document is to:

- Define the chemical management requirements for the Los Alamos National Laboratory (LANL or the Laboratory) Chemical Lifecycle Program.
- Define processes to ensure protection of workers from health hazards associated with hazardous chemicals, and to keep exposures below Occupational Exposure Limits (OELs) as provided in the [Prime Contract](#).
- Provide direction to ensure that work with hazardous chemicals is conducted in a safe and responsible manner that protects workers, the public, and the environment, in accordance with Laboratory Integrated Work Management (IWM) and Environmental Management Systems.
- Provide direction in the development and application of the hierarchy of controls (i.e., elimination, substitution, engineering, administrative, and Personal Protective Equipment [PPE]) that will protect workers and the environment.
- Promote consistency in the selection and application of chemical management and chemical safety controls.
- Ensure compliance with [29 Code of Federal Regulations \(CFR\) 1910.1200 Hazard Communication](#) and [29 CFR 1910.1450 Occupational Exposure to Hazardous Chemicals in Laboratories](#).

2.0 AUTHORITY AND APPLICABILITY

2.1 Authority

- Issuing Authority (IA): Associate Laboratory Director for Environment, Safety, Health, Quality, Safeguards, and Security (ALDESHQSS)
- Responsible Manager (RM): Environmental Protection and Compliance Division Leader (EPC-DL)
- Responsible Office (RO): Environmental Protection and Compliance (EPC-DO)

2.2 Applicability

This document applies to all Laboratory workers. Subcontract workers are required to follow the requirements set forth in their contractual agreement with the Laboratory in accordance with the Exhibit F process.

This document applies to all work areas where chemicals including gases (compressed and cryogenic fluids) are procured, acquired, synthesized, manufactured, machined, handled, received, distributed, used, stored, or disposed. Activities that are subject to the requirements contained in this document are maintenance, construction, facility categorization, Research and Development (R&D), emergency planning, environmental restoration, and Decontamination and Decommissioning (D&D).

This document applies to Laboratory facilities and equipment that involve current or past use of hazardous chemicals. Offsite work by LANL workers, where chemicals are used, should follow the specific guidelines and protocols of the host facility within the context of the guidelines provided herein.

Minimum requirements are adherence to the Federal Regulations cited in this document. Vehicular movement of chemicals subject to Department of Transportation (DOT) regulations is governed by [P151-1](#), *LANL Packaging and Transportation Program Procedure*.

3.0 PROCEDURE DESCRIPTION

This document sets forth practices for managing industrial hygiene, safety, and environmental concerns associated with hazardous chemicals.

Note: Every Laboratory organization that procures, acquires, manufactures, machines, handles, receives, distributes, transports, uses, stores, or disposes of hazardous chemicals is required to follow the safety plan found in Attachment A, *LANL Hazard Communication and Chemical Hygiene Plan*. Requirements identified in Attachment A are specific to:

- [29 CFR 1910.1200\(g\)](#), *Labor, Occupational Safety and Health Standards, Hazard Communication (e)*,
- [29 CFR 1910.1450](#), *Labor, Occupational Safety and Health Standards, Occupational Exposure to Hazardous Chemicals in Laboratories (e)*, and

The *LANL Hazard Communication and Chemical Hygiene Plan* found in Attachment A, as well as any associated Integrated Work Documents (IWDs) and organization-specific procedures that address hazardous chemicals, must be communicated to the workers in the organization. The plan is applicable to all activities whether chemicals are used in industrial applications (Hazard Communication [HAZCOM]) or small-scale laboratory R&D (Chemical Hygiene Plan [CHP]). Where it is mutually beneficial, the plan is applicable to all activities. Where procedures are specific to HAZCOM or CHP, the delineation is made in the text of the plan.

Note: Engineered nanomaterials are addressed in [P101-29](#), *Working with Nanotechnology Materials and Processes*. Biological materials are addressed in [P101-15](#), *Biological Safety*. Explosives are addressed in [P101-8](#), *Explosives Safety*. Radiological materials are addressed in [P121](#), *Radiation Protection*. Chemical disposition is addressed in [P409](#), *LANL Waste Management*. Controlled substances are addressed in [OSH-ISH-FSD-005](#), *Procurement, Management, and Disposal of Controlled Substances*.

3.1 Chemical Management and Chemical Safety Program Elements

The LANL chemical management program addresses elements from both [29 CFR 1910.1200\(g\)](#), *Labor, Occupational Safety and Health Standards, Hazard Communication*, and [29 CFR 1910.1450](#), *Labor, Occupational Safety and Health Standards, Occupational Exposure to Hazardous Chemicals in Laboratories*. Overall chemical management program elements are described in Table 1 *Chemical Management Program Elements*. Specific chemical safety program elements are described in Table 2 *Chemical Safety Program Elements*.

Table 1. Chemical Management Program Elements

| Chemical Management Program Element | P101-14 Section | P101-14, Attachment A Section |
|---|-----------------|-------------------------------|
| A list of the hazardous chemicals known to be present, i.e., an inventory | 3.3 | 1.3 |
| Hazard identification and analysis | Attachment A | All |
| Acquisition | 3.2 | NA |
| Chemical inventory management and tracking, including management of extremely hazardous chemicals, and Material Safety Data Sheets/Safety Data Sheets (MSDS/SDSs) | 3.3 | 1.4 (MSDS/SDS only) |
| Chemical transportation | 3.8 | NA |
| Chemical storage | 3.7 | NA |
| Hazard control | 3.6 | 1.6 |
| Pollution prevention and waste minimization | 3.4 | NA |
| Chemical emergency management | 3.9 | NA |
| Chemical disposition | 3.7 | NA |
| Training | 6.0 | 1.15 |

Table 2. Chemical Safety Program Elements

| Chemical Safety Program Element | P101-14 Section | P101-14, Attachment A Section |
|---|-----------------|-------------------------------|
| A list of the hazardous chemicals known to be present, i.e., an inventory | 3.3 | 1.3 |
| Access to MSDS/SDSs for procured or acquired hazardous chemicals | 3.3 | 1.4 |
| Container labeling and other forms of warning | NA | 1.5 |
| Employee information and training | 6.0 | 1.15 |
| Methods used to inform employees of hazards of non-routine tasks or chemicals in unlabeled piping, precautionary measures for protection of employees during normal operating conditions and foreseeable emergencies, and the circumstances under which a particular laboratory operation, procedure or activity will require prior approval from the employer or the employer's designee before implementation | NA | 1.6 |
| Standard operating procedures relevant to safety and health considerations to be followed when laboratory work involves the use of hazardous chemicals | NA | 1.6 |
| Criteria that the employer will use to determine and implement control measures to reduce employee exposure to hazardous chemicals including engineering controls, the use of Personal Protective Equipment (PPE) and hygiene practices; particular | 3.6 | 1.6 |

Table 2. Chemical Safety Program Elements

| Chemical Safety Program Element | P101-14 Section | P101-14, Attachment A Section |
|--|-----------------|-------------------------------|
| attention will be given to the selection of control measures for chemicals that are known to be extremely hazardous | | |
| A requirement that fume hoods and other protective equipment are functioning properly and specific measures will be taken to ensure proper and adequate performance of such equipment | NA | 1.8 |
| Designation of personnel responsible for implementation of the Chemical Hygiene Plan (CHP) including the assignment of a Chemical Hygiene Officer (CHO), and, if appropriate, establishment of a Chemical Hygiene Committee | 4.2 | 1.9 |
| Provisions for additional employee protection for work with particularly hazardous substances, i.e., carcinogens, reproductive toxins, and substances that have a high degree of acute toxicity, including as appropriate: establishment of a designated area, use of containment devices such as fume hoods or glove boxes, procedures for safe removal of contaminated waste; and decontamination procedures | 4.2 | 1.11 |
| Compliance with 29 Code of Federal Regulations (CFR) 1910.119 , <i>Labor, Occupational Safety and Health Standards, Process Safety Management of Highly Hazardous Chemicals (Occupational Safety and Health Administration [OSHA] PSM Rule)</i> , Appendix A | 4.7 | NA |
| Hazardous chemical spill response | 3.9 | NA |

3.2 Chemical Acquisition

Acquisition includes procurement, onsite synthesis, blending of chemicals, individuals or organizations bringing chemicals onsite, and other mechanisms. Chemicals are purchased by trained and authorized chemical workers.

Before a chemical owner makes a decision to purchase a chemical through LANL procurement, the chemical owner will determine whether:

- The proposed quantity of the chemical is within the evaluated safety basis limits, fire protection limits, and fire hazard analysts limits for the facility.

Note: The Facility Operations Director (FOD) is responsible for providing this information.

- Approval is required for purchase of the chemical as stated in [Document 3400.00.0410 \(Rev. 4.1, 12/21/18\) Goods or Services Requiring Special Review/Approval](#).
- There is a less hazardous or non-hazardous chemical available.
- There is a suitable surplus chemical available from another chemical owner.
- There is a current need for the chemical.
- There are unique hazards of the chemical that would require special assessment and controls.
- The quantity is limited to a specific project or maintenance need.

- There are stability or shelf life issues that need to be tracked.
- Storage facilities are suitable.
- There is an appropriate safe and environmentally acceptable means for the final disposition of environmentally sensitive chemicals, products, and byproducts.
- The correct SDS is included in the [LANL SDS Electronic Binder](#) and that the name on that SDS is used as the ChemDB entry Chemical Name.

Note: Contact OCC Safety and Health Division-Industrial Safety and Hygiene Group at safetydatasheets@lanl.gov to add SDS/MSDSs to the [LANL MSDS/SDS Electronic Binder](#).

All gas will be acquired from the [Gas Facility](#) for those maintained as stock items, or as a LANL iProcurement Non Catalog request choosing Compressed Gas as the category. Gases may not be purchased on a purchase card (Pcard). All chemical/gases transported as a Hazard Class 2 material must be delivered to the Gas Facility at TA-3, Building 170. The SM-30 warehouse is not allowed to accept the delivery of gas.

Note: Non-gas chemical requests for purchase by Pcard must be submitted for approval using the [ChemDB Footprints Request](#). Include the TA, building, and room where the chemical will be stored, the Z# and name of the chemical requestor, the chemical or product name, total amounts requested, the manufacturer and catalog number, and an SDS/MSDS for the chemical or product.

Note: For Safety Basis Threshold Quantity information, see the [Chemical Categorization web page](#), and [Chemical Threshold Quantities for Safety Basis Categorization](#).

Note: For Quality Assurance Procurement requirements, see [P840-1 Quality Assurance for Procurements, Section 3.6.13 Chemicals](#).

3.3 Chemical Inventory Management and Tracking

- LANL is required to maintain a list of the hazardous chemicals known to be present using an identity that is referenced on the appropriate MSDS/SDS. The listing of hazardous chemicals is maintained in the [LANL institutional chemical inventory](#) database application, [ChemDB](#). This inventory is overseen by ALDESHQSS, EPC Division. For help with [ChemDB](#), please [submit a ChemDB Footprints Request](#).
- Primary hazardous chemical containers are barcoded, entered, and tracked in [ChemDB](#) in accordance with guidance documents found under the “Support and Resources” tab in [ChemDB](#). Primary containers of engineered nanomaterials and biological toxins are entered and tracked in [ChemDB](#).
- [ChemDB](#) will be updated when a primary hazardous chemical container is acquired; is transferred to a new owner and/or a new location; or is disposed.
- Chemical owners who are retiring, departing the Laboratory for another position, transferring to another position within the Laboratory, or are transferring chemicals for any other reason, must transfer chemical ownership for primary containers in [ChemDB](#) to the new owner; and must provide information on the status of the chemicals including information such as safe storage and handling protocols, and testing and evaluation requirements for any time-sensitive primary and secondary chemical containers.
- Physical inventories of primary hazardous chemical containers will be performed annually to verify the accuracy of [ChemDB](#). Upon completion of the inventory, a reconciliation of the physical inventory results and update of [ChemDB](#) is required. Annual inventories will be performed in accordance with [FSD-101-14-001, Annual Chemical Inventory and Reconciliation](#).

- Workers must have access to the MSDS/SDS for all procured hazardous chemicals. See [29 CFR 1910.1200\(g\)](#), *Labor, Occupational Safety and Health Standards, Hazard Communication* (g) (6) (iii) and (8) and [29 CFR 1910.1450](#), *Labor, Occupational Safety and Health Standards, Occupational Exposure to Hazardous Chemicals in Laboratories* (f) (3) (v). MSDS/SDSs must be maintained as stated in Attachment A, *LANL Hazard Communication and Chemical Hygiene Plan*, Section 1.4.

Note: Managers of chemical owners may assign a proxy to assist their chemical owners in carrying out chemical management responsibilities such as accessing [ChemDB](#) and performing annual inventories. Chemical owner proxies are subject to the same training requirements under this procedure as chemical owners.

3.4 Chemical Elimination, Substitution, Pollution Prevention, and Waste Minimization

Elimination of a hazardous chemical or substitution of a hazardous chemical with a less hazardous chemical is the preferred method to control hazards in accordance with the IWM process. Process change to a system for pollution prevention or waste minimization is another recognized control for chemical usage. Whenever possible, chemical workers will consider eliminating hazardous chemical usage or substituting less hazardous chemicals for highly hazardous chemicals, according to [29 CFR 1910.1450](#), *Labor, Occupational Safety and Health Standards, Occupational Exposure to Hazardous Chemicals in Laboratories*, and [10 CFR 1021](#), *Energy, National Environmental Policy Act Implementing Procedures*. In addition, upstream chemical minimization processes and waste reduction techniques to minimize the quantity of chemical used in an activity will be considered.

Avoid introducing excess chemicals into radiologically controlled areas, to minimize the potential to create a mixed waste. The need for legacy chemicals should be evaluated on at least an annual basis.

Note: The Environmental Protection Division-Environmental Stewardship Group may be contacted for assistance in chemical substitution, pollution prevention, and waste minimization. See the Laboratory [Chemical Safety Webpage](#) for assistance with surplus chemicals. Chemical Subject Matter Experts may also be contacted for assistance in chemical substitution. Transportation of surplus chemicals must comply with requirements in Section 3.8.

3.5 Management of Extremely Hazardous Substances

An [extremely hazardous substance](#) present at the Laboratory in an amount greater than or equal to its threshold planning quantity triggers emergency planning requirements as required by [40 CFR 355](#), *Protection of Environment, Emergency Planning and Notification*. Contact Emergency Operations Division-Emergency Response Group at 667-6211 for assistance in emergency planning and release reporting requirements.

3.6 Hazard Control

Identification, evaluation, and control of hazards associated with chemical use are managed through IWM (see [P300](#), *Integrated Work Management* and [P300-1](#) *Integrated Work Management for R&D*), and worker exposure assessments (see [P101-32](#), *Worker Exposure Assessments*). Communication of exposure assessment activities is addressed in [DESHS-CPCS-TP-004](#) *Communication of Industrial Hygiene Exposure Assessment and Sampling for Site Wide Craft Activities*.

3.7 Hazardous Chemical Storage

Storage includes all physical phases and all types of containers including, but not limited to, tanks, piping, cylinders, and containers of solid, liquid, or gaseous chemicals. Storage includes all

chemicals or chemical products, including used and unused chemicals, sealed, opened, or partially filled containers, working solutions, day-use containers, and chemical “residues” left within tanks, piping, or other containers. Storage in this document excludes storage of solid waste or hazardous waste.

Chemical storage will be limited to the quantity necessary to perform the work, and within safety basis and fire protection limits. Liquid hazardous chemicals must be stored so that a spill will not exceed 20 L (5 gallons), as required by the National Fire Protection Association (NFPA 45, *Standard on Fire Protection for Laboratories Using Chemicals* and NFPA 400, *Hazardous Materials Code*). Flammable and combustible liquids will be limited to less than the maximum quantities allowed in Tables 10.1.1(a), 10.1.1(b) and 10.1.2 of NFPA 45. Both documents are available to Laboratory workers through the [Research Library](#).

Storage of gas must follow the requirements of NFPA 55, *Compressed Gases and Cryogenic Fluids Code*, and the Compressed Gas Association and be grouped together by type (e.g., flammable, oxidizer, corrosive, toxic and highly toxic gases); segregated from potential hazards; and separated by 20 feet, or a half hour fire barrier in accordance with [P101-34](#), *Pressure Safety*.

Containers of materials that might become hazardous (i.e., time-sensitive chemicals) during prolonged storage will be dated when first opened, and managed in accordance with [Chemical Management Tool: Time-Sensitive Chemicals Tool](#).

To protect the environment and the safety and health of all people, hazardous waste will be disposed of properly. See [P409](#), *LANL Waste Management*, for requirements.

Note: The NFPA standards 30, 45, and 55, and the International Building Code define Maximum Allowable Quantities (MAQs) of different categories of chemicals that may be within open and closed systems in facilities. These criteria apply to LANL facilities (via the [Prime Contract](#)). The Fire Protection Division can assist in defining MAQs for specific facilities where those limits are not clearly defined.

3.8 Hazardous Chemical Transportation

Movement of hazardous chemicals subject to DOT regulations for public roads and site transportation on nonpublic roads will be done in accordance with [P151-1](#), *LANL Packaging and Transportation Program Procedure*. Gas must be delivered in a manner compliant with DOT Regulations, [49 CFR 100-199](#) *Transportation—Pipeline and Hazardous Materials Safety Administration, Department of Transportation*.

3.8.1 Off-Site Shipping

Any chemical that meets the definition of a hazardous material, or is suspected to be hazardous material according to [49 CFR 171.8](#), *Transportation, General Information, Regulations, and Definitions, Definitions and Abbreviations*, and is classified as a hazardous material in accordance with [49 CFR 173](#), *Transportation, Shippers—General Requirements for Shipments and Packagings, Parts 115–141 and Parts 403–436*. These chemicals will be packaged, marked, labeled, and shipped with prepared shipping papers in accordance with [49 CFR 100-199](#), *Transportation, Pipeline and Hazardous Materials Safety Administration, Department of Transportation*, and applicable Department of Energy (DOE) Orders by DOT trained personnel. Contact Logistics, [Packaging and Transportation \(LOG-PT\) for assistance](#).

Any chemical being shipped by air that meets the definition of dangerous goods according to the International Civil Aviation Organization will be packaged, marked, labeled, and shipped, with an

accompanying properly prepared dangerous goods declaration, in accordance with the International Civil Aviation Organization technical instructions. Contact Logistics, [Packaging and Transportation \(LOG-PT\) for assistance](#).

Wastes containing chemicals that are also New Mexico special wastes or hazardous wastes have additional shipping, placarding, manifesting, and training requirements. Contact your Waste Management Coordinator (WMC).

3.8.2 **On-Site Transfers of Chemicals**

The on-site transfer of hazardous chemicals will follow [P151-1](#), *LANL Packaging and Transportation Program Procedure*. Logistics, Packaging and Transportation (LOG-PT) has jurisdiction over the requirements for packaging, marking, and documenting on-site transfers.

On-site shipping of analytical-scale samples of hazardous chemicals (DOT small quantities) is permissible, as long as it meets Laboratory and DOT requirements for such samples. An example procedure that meets the Laboratory and DOT requirements for such on-site shipping, including training requirements, is SOP-C-DO-003, *On-Site Shipping of Analytical-Scale Samples of Hazardous or Radioactive Materials (DOT Small Quantities)*.

All hazardous chemical transport will be done in a government vehicle. Hand carrying of hazardous chemical containers will be done using secondary containment and laboratory carts for heavy or multiple containers. Exception: Gas must be transferred by Gas Facility personnel in accordance with [49 CFR 100-199](#), *Transportation, Pipeline and Hazardous Materials Safety Administration, Department of Transportation*.

3.8.3 **Hazardous Chemical Spills**

Workers must be authorized, provided the necessary training, understand required spill response procedures before working with a hazardous chemical, and verify that containment and cleanup of a spill is permitted by the IWD or equivalent Work Control document associated with the activity in progress.

- When safe to do so, authorized chemical workers will determine the extent of the area affected, and demarcate it with barricade tape or use another reliable means to restrict entry into the area. If it is not safe to do so, workers should evacuate the area.
- In the event of a large hazardous chemical spill (i.e., a spill that cannot be safely contained by an authorized chemical worker), make notifications and take necessary protective actions in accordance with [P1201-4](#), *Incident Reporting and Protective Actions*.
- Properly briefed, authorized chemical workers may cleanup incidental spills, using an appropriate spill kit or other means, following spill control, mitigation, cleanup, and reporting procedures listed in the IWD or equivalent Work Control document, associated with the activity in progress at the time of the spill. Refer to the [LANL Guidance for Reporting and Managing Incidental Spills](#).
- Workers and their supervisors are required to go to Occupational Medicine for a work-related injury or illness, including exposure to hazardous chemical spills, unless transported directly to Los Alamos Medical Center (LAMC). Prior to return to work, workers must go to Occupational Medicine for follow up.
- Workers and their supervisors will manage all debris and waste resulting from the cleanup of a spill as though it contains the hazardous chemical, according to WMC instruction.

3.9 Chemical Safety Tools

Chemical safety tools, found on the [Chemical Safety webpage](#), contain safety and health considerations to be followed when using hazardous chemicals. These tools will be supplemented and updated as needed.

4.0 RESPONSIBILITIES

4.1 Associate Laboratory Director for Environment, Safety, Health, Quality, Safeguards, and Security (ALDESHQSS)

- Overall accountability for the proper management of the Chemical Management Program.
- Chemical Management Program Manager provides overall coordination of LANL's Chemical Management Program.
- Oversees the [ChemDB](#) application.
- Maintains a site-wide MSDS/SDS program (OCC Safety and Health Division-Industrial Safety and Hygiene Group).
- Maintains a site-wide hazard assessment and exposure monitoring database, the Comprehensive Tracking System (CTS) (OCC Safety and Health Division-Industrial Safety and Hygiene Group).
- Performs exposure assessments for chemical hazards (Deployed Environment, Safety, Health Division). See [P101-32 Worker Exposure Assessments](#).
- Consults with the Laboratory community on the development and implementation of chemical hygiene and safety policies and practices (OCC Safety and Health Division-Industrial Safety and Hygiene Group).
- Annually reviews and updates as necessary the Hazard Communication and Chemical Hygiene Plan (OCC Safety and Health Division-Industrial Safety and Hygiene Group).
- Provides medical consultation and examinations for individuals who are exposed or potentially exposed to hazardous materials, including OSHA-regulated carcinogens (Occupational Medicine). See [Laboratory Industrial Hygiene and Safety Manual Chapter 33 Carcinogens](#).
- Provides consultation with respect to reproductive toxicants (Occupational Medicine, Deployed Environment, Safety, and Health Division-Facilities/Services Groups).
- Provides assistance in researching less hazardous chemical substitutes (Environmental Protection Division-Environmental Stewardship Group).
- Provides the LANL CHO (OCC Safety and Health Division-Industrial Safety and Hygiene Group)/Chemical Safety SME.

4.2 Emergency Operations Division

- Receives notification at Emergency Operations Division Emergency Operations Supports Center of hazardous materials incidents, deploys Emergency Operations Division assets to respond, and coordinates dispatch of offsite agency responders as needed.
- Responds (Emergency Operations Division) to hazardous materials incidents and serve as Incident Commander or integrate into a Unified Command System with other agencies to direct tactical actions at the incident scene and ensure the safety of affected personnel, mitigation of the incident, and protection of the environment and property.

- Responds (Emergency Operations Division Emergency Response Group Hazardous Materials Team) to hazardous materials incidents onsite and provides specialized response expertise and equipment to mitigate potential or actual releases of hazardous materials and render safe hazardous materials.
- Provides (Emergency Operations Division Emergency Response Group) services to LANL and surrounding communities in the areas of hazardous materials training and non-emergency hazardous materials consultations. Provides specialized expertise and equipment in response to hazardous materials emergencies at LANL and within the surrounding communities.

4.3 Division Leaders

- Ensure that Division activities involving chemicals are conducted within the safety envelope and the scope of work identified in Division and Facility documents.
- Ensure that adequate resources are provided to Responsible Line Managers (RLMs) to identify, evaluate, and control chemical hazards associated with existing and proposed work performed within their Divisions so that chemical management may be integrated into day-to-day operations.
- Ensure that a chemical safety plan is written for their Division, or reference Attachment A, *LANL Hazard Communication and Chemical Hygiene Plan*, as their Hazard Communication and Chemical Hygiene Plan.
- Ensure that violations of codes and safety standards identified by reviews or inspections are corrected or that compensatory measures or action plans are developed.

In CHP areas only, assign a Division Chemical Hygiene Officer (CHO) Group CHOs may be assigned as necessary. Ensure that CHOs have the experience and training as noted in Attachment A, *LANL Hazard Communication and Chemical Hygiene Plan*, Section 1.9.

4.4 Program Directors, Program Managers, and Project Leaders

Negotiate with RLMs to provide adequate resources for the requirements in this document.

4.5 Responsible Line Managers (RLMs) in Coordination with the Person in Charge (PIC)

- Ensure that primary hazardous chemical containers in their organization are barcoded, and entered and tracked in [ChemDB](#).
- Ensure that workers keep [ChemDB](#) current and accurate for their chemicals.
- Ensure that a physical chemical inventory of primary hazardous chemical containers is performed in their organization annually and reconciled in [ChemDB](#).
- Ensure that for any new activity (i.e., an activity that requires a new IWD) a hazard review is completed for hazards that may be encountered or generated during the course of the work. The evaluation must include the hazards associated with the properties and the reactivity of the materials used, any intermediate and end products that may be formed, hazards associated with the operation of the equipment at the operating conditions, and hazards associated with the proposed reactions.
- Ensure that all required training is completed by workers before the work is authorized.
- Integrate chemical life cycle management (purchase through disposition) into resource planning, funding, prioritizing, planning, scheduling, and implementation of work conducted under their supervision.

- Provide job-specific briefings and/or information on the chemical hazards and safety precautions related to each authorized chemical worker's assigned work, before beginning work.

Note: Never assume that a worker has knowledge of the chemical, its hazards, and the controls. Job-specific information must include:

- chemical inventory, relevant to the employee's assigned work, specific chemicals used, and the location of activities where hazardous chemicals are present;
 - specific methods and observations, if applicable, that are used to detect the presence or release of a hazardous chemical;
 - the location of the associated MSDS/SDS(s), and how to obtain an MSDS/SDS. For hazardous chemicals used, the following information from each MSDS/SDS must be discussed within a job-specific briefing, or as part of a pre-job briefing:
 - hazards identification;
 - fire protection/incompatibilities;
 - accidental release measures, handling and storage;
 - exposure controls/personal protection;
 - physical and chemical properties; and
 - chemical stability and reactivity information, particularly instability conditions and incompatible chemicals.
 - the applicable details of the written Hazard Communication and Chemical Hygiene Plan (see Attachment A, *LANL Hazard Communication and Chemical Hygiene Plan*) and any facility-specific HAZCOM Plan or written CHP;
 - secondary container labeling requirements (see Attachment A, Section 1.5.);
 - specific building signs and postings for hazardous chemicals;
 - Building Emergency Plans;
 - locations of eyewashes and safety showers;
 - spill response requirements, including mitigation, cleanup, and reporting requirements, and
 - specific chemical storage requirements.
- Monitor through Management Observation and Verification (MOV) or other means that equipment and chemical containers are labeled with the name of the contents and that work areas are posted with signs or placards that depict the chemical hazards in the area.
 - Monitor through MOV or other means that MSDS/SDSs are accessible to all workers who may have potential exposure to chemicals.
 - When authorizing IWDs, ensure that elimination of hazardous chemicals, or substitution of a less hazardous material when practical, has been addressed by the preparer.
 - When authorizing IWDs, ensure identification of operations where the following are used: known and suspect human carcinogens, reproductive toxicants, and substances with a high degree of acute toxicity.
 - Ensure that deployed personnel are notified to conduct worker exposure assessments, and that proper controls are established.
 - Ensure that workers adhere to the requirements in this document.

- Authorize workers to perform chemical work and Designated Procurement Representatives to purchase chemicals.
- Work with Facility Operations personnel to review chemical incidents and near misses involving chemicals, and ensure that corrective actions identified from chemical accident investigations and inspections are implemented.
- Ensure that all chemical hazards are removed when vacating space. When an area is being vacated, all chemicals will be moved, transferred to new ownership, or disposed of properly. The work area will be cleaned and restored to its original condition or a condition acceptable to the next occupant before transfer of ownership is completed.
- Ensure that resource planning, funding, prioritizing, scheduling, and implementation of chemical work conducted under their supervision addresses the necessary environmental, safety, and health evaluation and controls.
- Ensure that visitors are informed about the Laboratory's chemical safety policies and procedures, and ensure that they are aware of the existence and availability of chemical hazard information and resources.
- Notify Deployed Environment, Safety, and Health Division-Facilities/Services Groups deployed staff of new or modified work activities that require exposure assessments.
- Negotiate with Program Directors, Program Managers, and Project Leaders to provide adequate resources to meet the requirements in this document.
- Ensure that hazards from chemicals and/or chemical reactions are evaluated before laboratory activities or chemical reactions are begun. See Attachment A, Section 1.11.3.

4.6 Facility Operations Directors (FODs)

- Ensure that new work involving hazardous chemicals is reviewed by appropriate Subject Matter Experts (SMEs).
- Communicate Safety Basis levels to RLMS and maximum chemical quantities allowed to tenants.
- Maintain a proactive preventive maintenance program to ensure that laboratory engineering controls and emergency equipment (e.g., ventilation systems, detectors, shutoff devices, and emergency eyewash and safety showers) are in proper operating condition.
- Inform on-site construction/equipment subcontractors of the presence and identity of hazardous chemicals in their immediate work areas.
- Notify building occupants of testing, demolition, construction, and renovation activities and their related chemical hazards before beginning work.
- Work with the Subcontract Technical Representative (STR) to ensure that subcontractors comply with Exhibit F and other subcontractor requirements.
- Working with Acquisition Services Management-Project Management and the STR, ensure that subcontractors provide an inventory and the MSDS/SDS for hazardous chemicals brought on-site to the Environment, Safety, and Health (ESH) manager or designee, or Emergency Operations Division personnel.
- Ensure that chemical incidents are reported and investigated and that corrective action is taken to prevent recurrence.
- Provide facility-specific information so tenants are aware of bounding chemical thresholds.
- Ensure that facilities maintain quantities (by weight) of highly hazardous chemicals below threshold quantities (see [29 CFR 1910.119, Appendix A](#)).

4.7 Deployed Environment, Safety, and Health Division-Facilities/Services Groups Deployed Personnel

- Assist line managers in performing and documenting hazard assessments and risks for existing and planned operations, including laboratory moves and decommissioning.
- Provide guidance for establishing administrative, work practice, PPE, and engineering controls. Assist in determining labeling requirements for equipment, piping, containers, and facilities.
- Perform and document worker exposure assessments and exposure monitoring to determine employee exposures to hazardous materials and to evaluate the adequacy of controls in accordance with [P101-32](#), *Worker Exposure Assessments*.

4.8 Authorized Chemical Owners

- Barcode all primary hazardous chemical containers and enter the requirement information into [ChemDB](#). Conduct the annual inventory in accordance with [FSD-101-14-001 Annual Chemical Inventory and Reconciliation](#). Note: this may be done by a chemical owner proxy.
- Update [ChemDB](#) when a primary hazardous chemical containers is transferred to a new owner and/or a new location; or is disposed.
- Complete the training requirements for an authorized chemical worker. Individuals with appointments of less than one year, visitors, undergraduate and high school students will not be chemical owners. The immediate supervisor for visitors, undergraduates and high school students will be the chemical owner.
- Post work areas with signs or placards that depict the current chemical hazards in the area. Labels, signs, and placards will be consistent with the group's written plan (HAZCOM or CHP).
- Label chemical containers with required information. See Attachment A, *LANL Hazard Communication and Chemical Hygiene Plan*, Section 1.5.
- Working with the WMC, establish whether the chemical or its end product will require disposal as a hazardous waste, New Mexico Special Waste, or has other disposal requirements.
- To the greatest extent possible, purchase chemicals on an as-needed basis and limit the purchase quantity to an amount that will be used in six months or less, to minimize inventory and chemicals in storage. If possible, purchase reagents in polyethylene bottles or plastic-coated glass bottles to minimize breakage, corrosion, and rust. Verify that the amount purchased does not exceed safety basis or flammable or combustible liquid storage limits.
- Be aware of chemical incompatibilities and store chemicals accordingly.

4.9 Authorized Chemical Workers

- Work safely by observing safety standards, guidelines, and procedures.
- Implement all controls required by work authorization documentation.
- Stop work that may pose an imminent danger to workers.
- Work with Deployed Environment, Safety, and Health Division-Facilities/Services Groups deployed personnel in workplace monitoring and sample collection.
- Report unsafe conditions, chemical incidents, or injuries to line managers immediately.

- Call 911 immediately if a chemical-related illness or injury occurs. [See P102-2 Occupational Injury and Illness Reporting and Investigation](#). Make notifications and take any necessary protective actions in accordance with [P1201-4, Incident Reporting and Protective Actions](#).
- Be familiar with and follow chemical and emergency procedures as directed in work authorization documentation.
- Label chemical containers with required information. See Attachment A, *LANL Hazard Communication and Chemical Hygiene Plan*, Section 1.5.
- Complete required training and job-specific briefings on the chemical hazards and safety precautions related to assigned work, before beginning work. (See Section 6.0.)

5.0 IMPLEMENTATION

The requirements in this document are effective on the effective date.

6.0 TRAINING

Both [29 CFR 1910.1200](#) (h)(2) and (3), and [29 CFR 1910.1450](#), (f)(3) and (4) require that authorized chemical workers receive information and training. Course #25418, *Chemical Hazard Communication Introduction Live* and its substitute, Course #25997, *Chemical Hazard Communication Introduction Self-Study*, provide the following required information and training elements including:

- methods and observations that may be used to detect the presence or release of a hazardous chemical in the work area;
- the physical, health, simple asphyxiation, combustible dust, and pyrophoric gas hazards as well as hazards not otherwise classified;
- the measures employees may take to protect themselves from these hazards including specific procedures and emergency procedures that the employer has implemented to protect employees from exposure to hazardous chemicals;
- The training regarding pictograms, labels, and safety data sheets as required to be consistent with [29 CFR 1910.1200 Hazard Communication](#);
- the details of the LANL Hazard Communication (HAZCOM) Program; and
- the location and availability of LANL's Chemical Hygiene Plan.

The remaining required elements are provided in job-specific briefings (see Attachment A, Section 1.6, *Methods Used to Inform Workers*).

Note: If an authorized chemical worker will be generating waste, see [P409, LANL Waste Management](#).

7.0 EXCEPTION OR VARIANCE

To obtain an exception or variance to this document, see the following instructions:

- Managers may request an exception or variance from the IA through the RM;
- At the IA's request, the RM will provide a recommendation or supporting information; and
- The IA or designee will provide the requester with a written response and copy the RM.

The requesting organization must maintain the official copy of record of the approved correspondence granting the exception or variance.

8.0 DOCUMENTS AND RECORDS

8.1 Office of Record

The Policy Management Office is the Laboratory Office of Record for this Institutional Document and maintains the administrative record.

8.2 Required Records

Records generated from the requirements in this document must be managed in accordance with [P1020-1](#), *Laboratory Records Management*. These records include ChemDB (ALDESHQSS-EPC) and MSDS/SDSs (OCC Safety and Health Division-Industrial Safety and Hygiene Group), and training records (see [P781-1](#), *Conduct of Training* for responsible organizations).

9.0 DEFINITIONS AND ACRONYMS

9.1 Definitions

See LANL [Definition of Terms](#).

Accident—Any event, including, but not limited to, equipment failure, rupture of containers, or failure of engineering controls, that potentially creates a hazard through uncontrolled release of a hazardous chemical.

Authorized Chemical Worker—A worker (Triad National Security, LLC, contractor, subcontractor, student) whose RLM and PIC have determined that he/she has the training, skill, knowledge, and abilities to safely perform the chemical work to which he/she is assigned.

Carcinogen—Those chemicals that have been identified as substances that may lead to cancer by the agencies listed below and that have a concentration equal to or greater than 0.1% (1,000 parts per million).

- American Conference of Governmental Industrial Hygienists (ACGIH), either Category A1 (confirmed human carcinogen), Category A2 (suspected human carcinogen), or Category A3 (confirmed animal carcinogen with unknown relevance to humans).
- Compounds that the International Agency for Research on Cancer (IARC) has confirmed or identified as possible human carcinogens and those chemicals that the National Toxicology Program (NTP) has identified as known to be carcinogenic or chemicals that may reasonably be expected to be carcinogenic.

Ceiling Limit—The concentration that must not be exceeded during any part of the working exposure.

Chemical—Any element, compound, or mixture of elements and compounds. A substance that (1) possesses potentially hazardous properties (including, but not limited to, flammability, toxicity, corrosivity, reactivity, and instability); or (2) is included on any Federal, state, or local agency regulatory list; or (3) is associated with a MSDS/SDS. For the purposes of this document, this definition also applies to chemical products.

Chemical Hygiene Officer (CHO)—(CHP areas only). An employee, appointed by the Division Leader, who is qualified by training or experience to provide technical guidance in the development and implementation of the provisions of the LANL Hazard Communication and Chemical Hygiene Plan (see Attachment A, *LANL Hazard Communication and Chemical Hygiene Plan*).

Chemical Hygiene Plan (CHP)—A written program that consists of the Laboratory's CHP (see Attachment A, *LANL Hazard Communication and Chemical Hygiene Plan*) and activity-specific documentation, such as IWDs, which set forth guidance to protect workers from the dangers presented by hazardous chemicals used in a particular laboratory work area.

Chemical Inventory—A written or electronic record of chemicals.

Chemical Owner—An authorized chemical worker to whom a container that contains a chemical on the chemical inventory is assigned.

Chemical Release—Any spilling, leaking, pumping, pouring, emitting, emptying, discharging, injecting, escaping, leaching, dumping, or disposing of a chemical into the environment.

Chemical Worker—A worker who works with hazardous chemicals.

Container—A container means any bag, barrel, bottle, box, can, cylinder, drum, reaction vessel, storage tank, or the like that contains a hazardous chemical. Note: Pipes and piping systems, engines, fuel tanks, or other operating systems in a vehicle, are not considered to be containers.

Corrosive—A chemical that causes visible destruction of, or irreversible alterations in, living tissue by chemical action at the site of contact. A substance or a mixture that by chemical action will materially damage, or even destroy, metals is termed "corrosive to metal." See [29 CFR 1910.1200\(g\)](#), *Labor, Occupational Safety and Health Standards, Hazard Communication*, Appendix A.

Designated Area—An area that will be used for work with select carcinogens, reproductive toxins or substances which have a high degree of acute toxicity.

Emergency Response—A response made by workers from outside the immediate release area or by other designated emergency responders (i.e., Emergency Operations Division-Emergency Response Group, the Los Alamos County Fire Department and the Hazardous Materials Response Group) to an occurrence that results, or is likely to result, in an uncontrolled release of a hazardous substance.

Extremely Hazardous Substance—Any of 366 (+ or -) chemicals or hazardous substances identified by EPA based on hazard or toxicity and listed under EPCRA. The list is periodically revised. [See 40 CFR Part 355 Appendix A.](#)

Explosive—A chemical that causes a sudden, almost instantaneous release of pressure, gas, and heat when subjected to sudden shock, pressure, or high temperature.

Flammable Liquid Storage Cabinet—A cabinet for the storage of flammable and combustible liquids constructed in accordance with Section 9.5 of NFPA 30, *Flammable and Combustible Liquids Code*.

Hazard Communication (HAZCOM) Plan—A written program developed and implemented by the Laboratory or subcontractor, which consists of requirements listed in Attachment A, *LANL Hazard Communication and Chemical Hygiene Plan*, and activity-specific documentation such as IWDs, or operating procedures that set forth requirements to protect workers from the dangers presented by hazardous chemicals used in a specific construction or production work area.

Hazardous Chemical—Any chemical, including engineered nanomaterials and biological toxins, that presents a physical hazard or a health hazard (health hazard defined below). If a hazardous

chemical comprises 1% (0.1% for carcinogens) or greater of a compound or mixture, the compound or mixture will be treated as a hazardous chemical. See [29 CFR 1910.1200\(g\)](#), *Labor, Occupational Safety and Health Standards, Hazard Communication* (g) (2) (i) (c) (1).

Hazardous Waste—A solid waste that is not excluded from regulation as a hazardous waste and is a listed hazardous waste or exhibits any of the hazardous characteristics: ignitability, corrosivity, reactivity, or toxicity.

Health Hazard—A chemical that is classified as posing one of the following hazardous effects: acute toxicity (any route of exposure); skin corrosion or irritation; serious eye damage or eye irritation; respiratory or skin sensitization; germ cell mutagenicity; carcinogenicity; reproductive toxicity; specific target organ toxicity (single or repeated exposure); or aspiration hazard. The criteria for determining whether a chemical is classified as a health hazard are detailed in [29 CFR 1910.1200\(g\)](#), Appendix A, *Health Hazard Criteria* having an NFPA rating of 2, 3, or 4 under fire conditions.

High Acute Toxicity—Substances that may be fatal or cause clinical damage to target organs as a result of a single exposure or exposures of short duration. High-acute-toxicity chemicals meet the following criteria: a Permissible Exposure Limit (PEL) or Threshold Limit Value (TLV) of less than 0.1 ppm Time-Weighted Average (TWA) or ceiling limit of less than 1.0 ppm.

High Chronic Toxicity—Refers to substances that produce adverse effects in humans who suffer repeated exposures to those substances over a relatively prolonged period.

Immediate Use—The hazardous chemical will be under the control of and used only by the person who transfers it from a labeled container and only within the work shift in which it is transferred.

Irritant—A chemical, which is not corrosive, but which causes a reversible inflammatory effect on living tissue by chemical action at the site of contact.

Laboratory Scale—Work with substances in which the containers used for reactions, transfers, and other handling of substances are designed to be easily and safely manipulated by one person.

Laboratory Produced Material—A chemical or chemical mixture that is manufactured or synthesized by an operating group at the Laboratory.

Legacy Chemical—A stable, non-time-sensitive stock chemical or chemical mixture being held for evaluation for future use. Note: Per EPA [[40 CFR 261.2\(a\) \(2\)](#) and [261.33](#)], unused commercial chemical products do not become solid wastes (i.e., they remain commercial chemical products) until a determination is made that the material will be discarded. Commercial chemical products, even those whose shelf life has been exceeded, that ultimately will be used for their intended purpose or that will be reclaimed are not subject to the Resource Conservation and Recovery Act (RCRA). In 2006 [[71 FR 29719](#); May 23, 2006], EPA noted the following for laboratory chemicals "when accumulated for long periods of time, for example, such unused reagents may be considered solid or hazardous wastes if it can be determined that they are no longer usable for their intended purpose."

Material Safety Data Sheet/Safety Data Sheet (MSDS/SDS)—Written, printed, or electronically transmitted information on the hazards and properties of a particular material, including instructions for its safe use.

Mutagen—A chemical that induces DNA damage and genetic alterations that range from changes in one or a few DNA base pairs to gross changes in chromosome structure.

Occupational Exposure Limit (OEL)—The upper limit on the acceptable concentration of a hazardous substance in workplace air for a particular material or class of materials. LANL OELs include OSHA PELs (8-hour time weighted average), and Ceiling Values, ACGIH Threshold Limits Values (Threshold Limit Value-Time-Weighted Average [TLV-TWA], Threshold Limit Value-Short-Term Exposure Limit [TLV-STEL], and Threshold Limit Value-Ceiling [TLV-C]), or other appropriate OELs.

Occupational Safety and Health Administration Permissible Exposure Limit—regulatory limits on the amount or concentration of a substance in the air. They may also contain a skin designation. OSHA PELs are based on an 8-hour TWA exposure.

Physical Hazard—A chemical that is classified as posing one of the following hazardous effects: explosive; flammable (gases, aerosols, liquids, or solids); oxidizer (liquid, solid or gas); self-reactive; pyrophoric (liquid or solid); self-heating; organic peroxide; corrosive to metal; gas under pressure; or in contact with water emits flammable gas. See [29 CFR 1910.1200\(g\)](#), Appendix B, *Physical Hazard Criteria*.

Portable Container—A container used by one person for one shift and always under the control of the user.

Primary Hazardous Chemical Container—The original container in which the chemical was received from the manufacturer or distributor.

Production—An operation in which large quantities of a limited list of hazardous chemicals are used on a routine basis for synthesis, product manufacture, product preparation, dip tank or painting, solvent cleaning, photographic development, mechanical shops, construction, or maintenance activities.

Regulated Area—An area where entry and exit is restricted and controlled.

Reproductive Toxicants (known human)—Substances that are known to have lethal effects on the fertilized egg, developing embryo, or fetus, or to cause teratogenesis (malformation) in the fetus.

Secondary Container—Any chemical container other than an original container that will be used to store decanted chemicals or mixed chemicals beyond a single workday.

Note: This definition should not be confused with secondary containment for chemical release prevention and control.

Select Carcinogen—A substance regulated by OSHA as a carcinogen, is listed under the category "known to be carcinogens," in the Annual Report on Carcinogens published by the National Toxicology Program (NTP) (latest edition), is listed under Group 1 ("carcinogenic to humans") by the International Agency for Research on Cancer Monographs (IARC) (latest editions), or is listed in either Group 2A or 2B by IARC or under the category, "reasonably anticipated to be carcinogens" by NTP, and causes statistically significant tumor incidence in experimental animals.

Sensitizer—A chemical that causes a substantial proportion of exposed people or animals to develop an allergic reaction in normal tissue after repeated exposure to the chemical.

Short-Term Exposure Limit (STEL)—A 15-minute time weighted average that should not be exceeded at any time during a workday.

Solid Waste—As defined by regulations promulgated under RCRA and the New Mexico Hazardous Waste Act, unless otherwise excluded, is any discarded material, either abandoned, recycled, or inherently waste-like, including liquids, solids, semisolids, and contained gases.

Spill—An unintentional release of a hazardous chemical, liquid, or solid that creates a hazard because of quantity, physical properties, or toxicity.

Stationary Process Container—A non-portable hazardous material container.

Subcontractor—A party entering into a contract with Triad National Security, LLC.

Threshold Limit Value (TLV)—An ACGIH limit that is usually expressed as an 8-hour TWA, meaning a time-weighted airborne contaminant concentration for a normal 8-hour workday and a 40-hour work week, to which nearly all workers may be repeatedly exposed, day after day, over a working lifetime, without adverse effect.

Time Sensitive Chemicals—Those chemicals that, when stored for prolonged periods or under improper storage conditions, can develop hazards that were not present in the original formulation. There are four general categories of time-sensitive chemicals loosely based on those unsafe properties that can develop. They are (1) peroxide formers, (2) peroxide formers that can undergo hazardous polymerization, (3) materials that become shock or friction sensitive upon the evaporation of a stabilizer, and (4) materials that generate significant additional hazards by undergoing slow chemical reactions. It should be noted that time-sensitive chemicals can be pure reagents or they can be commercial mixtures formulated as cleaners, adhesives, and other products.

Note: This definition does not include chemicals that have expiration dates for nonsafety reasons, e.g., inorganic standard solutions that expire one year from purchase.

Toxicant—A material that has the ability to injure biological tissue.

Toxicity—A relative property of a chemical agent that refers to a harmful effect on some biologic mechanism and the condition under which this effect occurs.

9.2 Acronyms

See LANL [Acronym Master List](#).

| | |
|-----------|--|
| ACGIH | American Conference of Governmental Industrial Hygienists |
| ALDESHQSS | Associate Laboratory Director for Environment, Safety, Health, Quality, Safeguards, and Security |
| ALDFO | Associate Laboratory Director for Facilities and Operations |
| ANSI | American National Standards Institute |
| CFR | Code of Federal Regulations |
| CGA | Compressed Gas Association |
| CHO | Chemical Hygiene Officer |
| CHP | Chemical Hygiene Plan |
| CTS | Comprehensive Tracking System |

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|---------------------------|--|
| D&D | Decontaminate and Decommission |
| DEAR | Department of Energy Acquisition Regulation |
| DOE | Department of Energy |
| DOT | Department of Transportation |
| DPR | Designated Procurement Representative |
| ESH | Environment, Safety, Health |
| EPCRA | Emergency Planning and Community Right-to-Know Act |
| FOD | Facility Operations Director |
| FSD | Functional Series Document |
| GHS | Globally Harmonized System |
| HAZCOM | Hazard Communication |
| HDBK | Handbook |
| HEPA | High-Efficiency Particulate Air |
| HF | Hydrofluoric Acid |
| IA | Issuing Authority |
| IARC | International Agency for Research on Cancer |
| ISEA | International Safety Equipment Association |
| IWD | Integrated Work Document |
| IWM | Integrated Work Management |
| LANL or the Laboratory | Los Alamos National Laboratory |
| LAMC | Los Alamos Medical Center |
| MMAQ | MolarMaximum Allowable Quantity |
| MOV | Management Observation and Verification |
| MSDS/SDS | Material Safety Data Sheet/Safety Data Sheet |
| NFPA | National Fire Protection Association |
| NTP | National Toxicology Program |
| OEL | Occupational Exposure Limit |
| OSHA | Occupational Safety and Health Administration |
| PEL | Permissible Exposure Limit |
| PIC | Person in Charge |
| POC | Point of Contact |
| PPE | Personal Protective Equipment |
| R&D | Research and Development |
| RCRA | Resource Conservation and Recovery Act |
| RLM | Responsible Line Manager |
| RM | Responsible Manager |
| RO | Responsible Office |
| SME | Subject Matter Expert |
| STEL | Short-Term Exposure Limit |
| STR | Subcontract Technical Representative |
| TA | Technical Area |
| TLV | Threshold Limit Value |

| | |
|----------|---|
| TLV-C | Threshold Limit Value-Ceiling |
| TLV-STEL | Threshold Limit Value-Short-Term Exposure Limit |
| TLV-TWA | Threshold Limit Value-Time-Weighted Average |
| TWA | Time-Weighted Average |
| USI | Unreviewed Safety Issue |
| USQ | Unreviewed Safety Question |
| WMC | Waste Management Coordinator |

10.0 HISTORY

| Revision History | | |
|------------------|-----------------|--|
| 04/22/08 | P101-14, Rev. 0 | Renumbered document, ISD 101-14, <i>Chemical Management</i> . |
| 04/15/09 | P101-14, Rev. 1 | <p>Reformatted to meet the requirements as set forth in P311-1, <i>LANL Policy Review Process</i>.</p> <p>Updated to address needs identified by the Chemical Management Improvement Project, driven by a Black Belt Project Execution Plan, and captured in Laboratory Issues Management Tracking System (LIMITS). The need to provide a more user-friendly chemical inventory process, and tools to Designated Procurement Representatives (DPRs) and chemical workers is addressed. As part of the provision of a more user-friendly chemical inventory process, drivers based on compliance requirements for chemical management were identified. Divisions responsible for these compliance requirements provided additional requirements for chemical inventory management and tracking, which are now reflected in a Chemlog functional requirements document. The set of requirements is provided in Section 3.3 of the document.</p> <p>There are no new requirements in this document, but the document has been simplified and updated, including combining the Hazard Communication (HAZCOM) plan and the Chemical Hygiene Plan (CHP) into one attachment.</p> |
| 08/11/10 | P101-14, Rev. 2 | <p>Issued as a PROVISIONAL document until October 11, 2010.</p> <p>Added a requirement to ensure compliance with 29 Code of Federal Regulations (CFR) 1910.119, <i>Labor, Occupational Safety and Health Standards, Process Safety Management of Highly Hazardous Chemicals (OSHA PSM Rule)</i>, Appendix A. by requiring Facility Operations Directors (FODs) to ensure that quantities are kept below threshold quantities.</p> <p>Updated responsibilities for chemical inventory to reflect ownership by Emergency Operations-Emergency Planning and Preparedness (EO-EPP).</p> <p>Clarified training requirements for “authorized chemical workers” and explained the training requirements for a worker who performs chemical spill/control/mitigation/cleanup.</p> |

| Revision History | | |
|------------------|-----------------|---|
| | | <p>Added a requirement that work involving hazardous chemicals is reviewed using a new activity review process or equivalent process.</p> <p>Clarified the requirement for Chemical Hygiene Officers (CHOs), added the requirement that CHOs are assigned by the Division Leader, and added training and responsibilities for CHOs.</p> <p>Added specific requirements for job-specific briefings and/or information.</p> <p>Added the requirement for evaluation of chemicals and chemical reactions before start of laboratory activities.</p> |
| 10/11/10 | P101-14, Rev. 2 | Document became effective and was no longer PROVISIONAL. |
| 11/30/10 | P101-14, Rev. 3 | <p>Updated links to ensure correct names; removed irrelevant, incorrect, or duplicative links.</p> <p>Section 3.2: Elimination of a requirement for DPRs and clarification of chemical owner responsibility for procurement.</p> <p>Reducing requirement for justification of keeping chemical containers from six months to five years.</p> |
| 11/30/11 | P101-14, Rev. 4 | <p>Updated items in Section 3.2 to consider before a chemical is purchased and provided link to list of chemicals with no disposal path.</p> <p>Changed Form 2134, <i>Medical Surveillance and Medical Certification Program Enrollment Form</i>, to Form 1793, <i>Job-Demands Evaluation</i>.</p> <p>Changed Chemical Management Webpage to Chemical Management Webpage.</p> <p>Updated Section 5.0 to reflect that this Quick Change does not require an Unreviewed Safety Question/Unreviewed Safety Issue (USQ/USI) review.</p> <p>Updated links, titles, and acronyms.</p> |
| 09/27/12 | P101-14, Rev. 5 | <p>Section 5.0: Updated to reflect effective date of December 17, 2012 for applicable nuclear, high- and moderate-hazard facilities and accelerators.</p> <p>Removed the requirement for the approval by the Person in Charge (PIC) for the applicable Integrated Work Document (IWD).</p> <p>Updated links, titles, and acronyms.</p> |
| 01/08/15 | P101-14, Rev. 6 | <p>This document cancels PD100, <i>Occupational Safety and Health</i>.</p> <p>Performed three-year review in accordance with PD311, <i>Requirements System and Hierarchy</i>.</p> <p>Changed the Issuing Authority (IA) from Associate Director for Environment, Safety, and Health (ADESH) to Associate Director for Nuclear and High Hazard Operations (ADNHHO); changed the Responsible Manager (RM) from Industrial Hygiene and Safety Division Leader to Operations Support (OS) Division Leader; and changed the Responsible Office</p> |

| Revision History | | |
|------------------|----------------------------------|---|
| | | <p>(RO) from Industrial Hygiene and Safety Division to Operations Support-Division Office (OS-DO).</p> <p>Addressed revised Occupational Safety and Health Administration (OSHA) Hazard Communication Standard, now aligned with the Globally Harmonized System (GHS) of Classification and Labeling of Chemicals.</p> <p>Clarified requirements for Chemical Hygiene Officers.</p> <p>Reinserted requirements for chemical inventory.</p> <p>Added new requirements in 29 CFR 1910.1200, <i>Labor, Occupational Safety and Health Standards, Hazard Communication</i>.</p> <p>Added requirements for handling of sharps.</p> <p>Clarified and streamlined other chemical management requirements.</p> <p>Revised language in Section 5.0 to reflect Unreviewed Safety Question/Unreviewed Safety Issue (USQ/USI) process and implementation dates for affected facilities.</p> <p>Updated acronyms, links, and organization names.</p> <p>Made other edits and clarifications to resolve vague or inappropriate wording.</p> |
| 08/06/15 | P101-14, Rev. 7 | <p>Performed three-year review in accordance with PD311, <i>Requirements System and Hierarchy</i>.</p> <p>Throughout document: Changed "Chemlog@lanl.gov" to "ChemDB@lanl.gov."</p> <p>Section 1.0: Changed the name from "Hazardous Materials Lifecycle Management Program" to "Chemical Lifecycle Management Program."</p> <p>Section 3.3: Changed how to barcode, enter, and track to the "Support and Resources" tab in the LANL institutional chemical inventory database application.</p> <p>Section 5.0: Updated this section to read, "The requirements in this document are effective on the issue date."</p> <p>Section 6.0: Updated broken link to UTrain course # 25418.</p> <p>Attachment A, Section 1.3: Removed sentence referencing Tools #9.</p> <p>Updated hyperlinks and references.</p> |
| 07/31/17 | P101-14, Rev. 7 Admin. Chg. 1 | <p>Changed pointer in Table 2, row 7, from Main Document Section 3.7 to 3.6.</p> |
| 08/23/17 | P101-14, Rev. 7 Admin. Chg. 2 | <p>Section 3.7: Changed "i.e." to "e.g." in paragraph 4.</p> <p>Changed title from P102, <i>Occupational Medicine</i>, to P102, <i>Occupational Health</i>.</p> |
| 10/16/17 | P101-14, Rev. 7 Admin. Chg. 3 | <p>Section 6.0, first bullet following third paragraph: Replaced reference to "Course #21464 or equivalent" with "Course #25418, <i>Chemical Hazard Introduction</i>, or Course #25997, <i>Chemical Hazard Communication Introduction</i>."</p> |

| Revision History | | |
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| 3/29/18 | P101-14, Rev 8 | Sections 2.2 and 3.8: Clarified applicability of requirements with respect to chemicals being moved or transported in a vehicle. |
| 11/01/18 | P101-14, Rev 9 | <p>This update includes mandated Issues Management actions stemming from Fiscal Year (FY) 2017 Report Emergency Management Program Elements, and Technical Planning Basis, recommended updates to this document (Reference: OSH-DO:17-517) as a result of an event, and addresses crucial safety processes for time-sensitive chemicals.</p> <p>Section 1.0: Updated to focus requirements on chemical management and chemical safety controls.</p> <p>Section 3.2: The link for the ChemDB Footprints Request was updated to provide efficient access to help for ChemDB users.</p> <p>Section 3.2: The link for Safety Basis Threshold Quantity information was added to provide efficient access for chemical owners.</p> <p>Section 3.3: The link for the ChemDB Footprints Request was updated to provide efficient access to help for ChemDB users. This section was also revised to include clear instructions for chemical owners for transferring chemicals to a new owner, a reference to the new Annual Chemical Inventory and Reconciliation FSD, and the requirement to track engineered nanomaterials and biological toxins.</p> <p>Section 3.7: Clarified crucial safety requirements for all time-sensitive chemicals, including peroxidizables.</p> <p>Section 3.8: Reordered to show steps in order, and now includes a link to the LANL Guidance for Reporting and Managing Incident Spills.</p> <p>Section 4.4: Updated to simplify the requirement for a Hazard Communication and Chemical Hygiene Plan.</p> <p>Section 4.6: Updated to remove requirements already addressed in P300, <i>Integrated Work Management</i>, and P300-1, <i>Integrated Work Management for R&D</i>. It was also updated to simplify wording for carcinogen regulatory requirements.</p> <p>Section 6.0: Clarified institutional training requirements as required in 29 CFR 1910.1200(g), <i>Labor, Occupational Safety and Health Standards, Hazard Communication and</i> 29 CFR 1910.1450, <i>Labor, Occupational Safety and Health Standards, Occupational Exposure to Hazardous Chemicals in Laboratories</i>. Refers to Attachment A, Section 1.6, <i>Methods Used to Inform Workers</i>. (RLMs are responsible for providing chemical workers with job-specific hazardous chemical information, including labeling requirements for primary containers, secondary containers, stationary process containers, and chemical-containing facility equipment, process equipment or vessels, and piping.).</p> <p>Section 9.1: This section now includes a necessary definition for container, includes engineered nanomaterials and</p> |

| Revision History | | |
|------------------|---------------------------------|--|
| | | <p>biological toxins in the definition for hazardous chemical, has an added definition for a stationary process container, and clarifies the definitions of a designated area for carcinogens and select carcinogens.</p> <p>Attachment A, Section 1.3, <i>Chemical Inventory Requirements</i>: Clarifies the annual inventory and reconciliation requirements.</p> <p>Attachment A, Section 1.5, <i>Labels</i>: Now includes updated label requirements to address stationary process containers, containers too small to be labeled, chemical containers that are staged and awaiting characterization for a potential disposal path, and other chemical-containing facility equipment, process equipment, or vessels, and piping.</p> <p>Attachment A, Section 1.6, <i>Methods to Inform Workers</i>: Now specifies that job-specific hazardous chemical information will include labeling requirements for primary containers, secondary containers, stationary process containers, and chemical-containing facility equipment, process equipment or vessels, and piping.</p> <p>Attachment A, Section 1.11.2, <i>Additional Requirements for Carcinogens</i>: Clarified regulated area requirements.</p> <p>Other edits and clarifications were made to resolve vague or inappropriate wording.</p> <p>Updated organizational names throughout document.</p> <p>Updated Sections 11.0, <i>References</i>, and 14.0, <i>Contact</i>.</p> |
| 02/06/19 | P101-14, Rev 9 Admin. Chg. 1 | <p>Section 3.0: Added reference to OSH-ISH-FSD-005.</p> <p>Updated link for Prime Contract.</p> |
| 05/03/19 | P101-14, Rev 9 Admin. Chg. 2 | <p>Section 3.2: Replaced outdated text and link for <i>Goods and Services Requiring Special Review/Approval</i>.</p> |
| 06/07/21 | P101-14, Rev 10 | <p>Revision Changing IA from ALDFO to ALDESHQSS, and RM and RO from ALDFO Ops Support to EPC Division,</p> <p>Section 3.3, Changed responsibility for Chemical Inventory Management and Tracking from ALDFO to ALDESHQSS.</p> <p>Page 7, removed note referencing Chemical Management Tool, Chemical Storage Schemes, as it no longer exists.</p> <p>Deleted Section 4.1, Operations Support, and incorporated responsibilities for ALDESHQSS. Renumbered responsibility sections as appropriate.</p> <p>Updated Contact information for Chemical Management in Section 14.0 to ALDESHQSS, EPC.</p> <p>Added and corrected numerous hyperlinks and updated references.</p> <p>Updated organization names.</p> |

11.0 REFERENCES

[Prime Contract](#)

Functional Documents

The following Functional Series Documents are created by this Institutional Document.

- [OSH-ISH-FSD-005](#), *Procurement, Management, and Disposal of Controlled Substances*
- [FSD-101-14-001](#), *Annual Chemical Inventory and Reconciliation*

11.1 Other References

- [29 CFR 1910.1200\(g\)](#), *Labor, Occupational Safety and Health Standards, Hazard Communication*
- [DOE O 151.1D](#), *Comprehensive Emergency Management System*
- [P151-1](#), *LANL Packaging and Transportation Program Procedure*
- [29 CFR 1910.1450](#), *Labor, Occupational Safety and Health Standards, Occupational Exposure to Hazardous Chemicals in Laboratories*
- [P101-29](#), *Working with Nanotechnology Materials and Processes*
- [P101-15](#), *Biological Safety*
- [P101-8](#), *Explosives Safety*
- [P121](#), *Radiation Protection*
- [P409](#), *LANL Waste Management*
- [29 CFR 1910.119](#), *Labor, Occupational Safety and Health Standards, Process Safety Management of Highly Hazardous Chemicals (OSHA PSM Rule), Appendix A*
- [MSDS/SDS electronic binder](#)
- [ChemDB Footprints Request](#)
- [Chemical Categorization web page](#)
- [Chemical Threshold Quantities for Safety Basis Categorization with Attachment 1 Dispersion Limited Material-At-Risk for Safety Basis Categorization Protective Action Criteria \(PAC\)-3](#)
- [LANL institutional chemical inventory](#)
- [ChemDB](#)
- [10 CFR 1021](#), *Energy, National Environmental Policy Act Implementing Procedures*
- [Chemical Safety Webpage](#)
- [40 CFR 355](#), *Protection of Environment, Emergency Planning and Notification*
- [P300](#), *Integrated Work Management*
- [P300-1](#), *Integrated Work Management for R&D*
- [P101-32](#), *Worker Exposure Assessments*
- [Research Library](#)
- [NFPA 45](#), *Standard on Fire Protection for Laboratories Using Chemicals*

- [NFPA 55](#), *Compressed Gases and Cryogenic Fluids Code*
- [NFPA 430](#), *Code for the Storage of Liquid and Solid Oxidizers*
- [NFPA 432](#), *Code for the Storage of Organic Peroxide Formulations*
- [NFPA 484](#), *Standard for Combustible Metals*
- [NFPA 704](#), *Standard System for the Identification of the Hazards of Materials for Emergency Response*
- [P101-34](#), *Pressure Safety*
- [Chemical Management Tool: Time-Sensitive Chemicals Tool](#)
- [Chemical Safety Tools webpage](#)
- [49 CFR 100–199](#), *Transportation, Pipeline and Hazardous Materials Safety Administration, Department of Transportation*
- [49 CFR 171.8](#), *Transportation, General Information, Regulations, and Definitions, Definitions and Abbreviations*
- [49 CFR 173](#), *Transportation, Shippers—General Requirements for Shipments and Packagings, Parts 115–141 and Parts 403–436*
- [SOP-C-DO-003](#), *On-Site Shipping of Analytical-Scale Samples of Hazardous or Radioactive Materials (DOT Small Quantities)*
- [LANL Guidance for Reporting and Managing Incidental Spills](#)
- [NFPA 30](#), *Flammable and Combustible Liquids Code*
- [40 CFR 261](#), *Protection of Environment, Identification and Listing of Hazardous Waste*
- [LANL MSDS/SDS database](#)
- [LANL Engineering Standards Manual, ESM, STD-342-100](#)
- [Laboratory Industrial Hygiene and Safety Manual](#)
- [P781-1](#), *Conduct of Training*
- [OSH-ISH-Form-005 Job Specific Hazardous Chemical Information Checklist](#)
- [P101-21](#), *Chronic Beryllium Disease Prevention Program*
- [P101-16](#), *Industrial Ventilation (non-HVACR)*
- [American National Standards Institute/International Safety Equipment Association \(ANSI/ISEA\) z358.1-2009](#), *American National Standard for Emergency Eyewash and Shower Equipment*
- [LANL Operations and Maintenance Manual, Criterion 407: Emergency Eyewash and Shower Equipment](#)
- [29 CFR 1910 Subpart Z](#), *Labor, Occupational Safety and Health Standards, Toxic and Hazardous Substances*
- [29 CFR 1910.1003](#), *Labor, Occupational Safety and Health Standards, 13 Carcinogens*
- [P101-19](#), *Safety Signs, Labels, and Tags*
- [Signs, Labels, & Tags Integral to Safe Operations](#)
- [P101-6](#), *Personal Protective Equipment*
- [PD1200](#), *Emergency Management*

- [P102](#), *Occupational Health*
- [OPEX at LANL](#)
- [Working with Sharps](#)
- [Management of Waste Sharps](#)
- [49 CFR](#), *Transportation*
- [29 CFR 1926.21](#), *Labor, Safety and Health Regulations for Construction, Safety Training and Education*
- [40 CFR 262](#), *Protection of Environment, Standards Applicable to Generators of Hazardous Waste*
- [LANL Category 1 Chemicals](#) list
- [10 CFR 851](#), *Energy, Worker Safety and Health Program*
- [Montreal Protocol on Substances that Deplete the Ozone Layer](#)
- [Public Law 101-549](#), *Clean Air Act Amendments of 1990*
- [29 CFR 1910.1020](#), *Labor, Occupational Safety and Health Standards, Access to Employee Exposure and Medical Records*
- [40 CFR 61](#), *Protection of Environment, National Emission Standards for Hazardous Air Pollutants*
- [40 CFR 63](#), *Protection of Environment, National Emission Standards for Hazardous Air Pollutants for Source Categories*
- [40 CFR 68](#), *Protection of Environment, Chemical Accident Prevention Provisions*
- [40 CFR 82](#), *Protection of Environment, Protection of Stratospheric Ozone*
- [40 CFR 263](#), *Protection of Environment, Standards Applicable to Transporters of Hazardous Waste*
- [40 CFR 268](#), *Protection of Environment, Land Disposal Restrictions*
- [40 CFR 302](#), *Protection of Environment, Designation, Reportable Quantities, and Notification*
- [40 CFR 370](#), *Protection of Environment, Hazardous Chemical Reporting: Community Right-to-Know*
- [40 CFR 372](#), *Protection of Environment, Toxic Chemical Release Reporting: Community Right-to-Know*
- [40 CFR 700–799](#), *Protection of Environment, Toxic Substances Control Act*
- [Compressed Gas Association \(CGA\)](#) Publications
- [49 CFR 171-185](#), *Transportation, Hazardous Materials Regulations*
- [DOE-HDBK \(Handbook\)-1139/2-2006, Chemical Management \(Volume 2 of 3\)](#), *Chemical Safety and Lifecycle Management*
- [DOE-HDBK-1139/3-2003, Chemical Management \(Volume 3 of 3\)](#), *Consolidated Chemical User Safety and Health Requirements*
- [P301](#), *Research Sample Management for Quality R&D*
- [Designated Procurement Representative \(DPR\)](#)

12.0 FORMS

There are no forms associated with this document.

13.0 ATTACHMENTS

Attachment A. *LANL Hazard Communication and Chemical Hygiene Plan*

14.0 CONTACTS

Chemical Management: ALDESHQSS, EPC Division

Website: <https://int.lanl.gov/services/chemical-management/>

Chemical Safety: OCC Safety and Health Division

Website: https://int.lanl.gov/safety/industrial_hygiene_and_safety/chemical-safety/index.shtml

No: P101-14 Chemical Management
Attachment A. LANL Hazard Communication and Chemical Hygiene Plan (Page 1 of 13)

1.0 INTRODUCTION

A Chemical Hygiene Plan (CHP) is required by [29 Code of Federal Regulations \(CFR\) 1910.1450](#), *Labor, Occupational Safety and Health Standards, Occupational Exposure to Hazardous Chemicals in Laboratories*, which applies to facilities where multiple chemicals are used in laboratory scale quantities or Research and Development (R&D). A written Hazard Communication (HAZCOM) Plan is required by [29 CFR 1910.1200\(g\)](#), *Labor, Occupational Safety and Health Standards, Hazard Communication*, and [29 CFR 1926.59](#), *Labor, Safety and Health Regulations for Construction, Hazard Communication*, which apply to workers who use chemicals in shops, maintenance activities, construction or facility work, product manufacture, laboratory analysis, environmental restoration, or decommissioning activities. This attachment covers both standards. Areas where only one standard applies will be noted in the text.

Personnel exposure to chemical agents is to be minimized, and maintained within acceptable exposure limits. Exposures will be minimized by the use of hazard elimination, hazard substitution, engineering controls, administrative controls, and Personal Protective Equipment (PPE). Every employee, guest, visiting scientist, student, or subcontractor working on or off-site will be familiar with and comply with appropriate Los Alamos National Laboratory (LANL or the Laboratory) safety standards.

This plan includes:

- procedures to be followed when work involves the use of hazardous chemicals,
- criteria used to determine and implement control measures to reduce employee exposure to hazardous chemicals through the Integrated Work Management (IWM) and Worker Exposure Assessment processes,
- methods used to inform workers of non-routine tasks and hazards associated with chemicals in unlabeled pipes through the IWM process,
- requirements for:
 - fume hoods and other protective equipment,
 - employee information and training,
 - authorization and approval of activities through the IWM process,
 - additional employee protection for work with particularly hazardous substances in accordance with [29 CFR 1910.1450](#), *Labor, Occupational Safety and Health Standards, Occupational Exposure to Hazardous Chemicals in Laboratories*.
 - a hazardous chemical listing, and
 - subcontractor personnel in terms of HAZCOM.

1.1 Purpose

The purpose of this Hazard Communication and Chemical Hygiene Plan is to provide workers with the specific requirements for chemicals used during work, the hazards involved, the forms of warning, Material Safety Data Sheets/Safety Data Sheets (MSDS/SDSs), and the procedures and work practices to minimize their exposure to those chemicals.

No: P101-14 Chemical Management
Attachment A. LANL Hazard Communication and Chemical Hygiene Plan (Cont.) (Page 2 of 13)

1.2 Scope

HAZCOM applies to the use of chemicals in shops, maintenance activities, construction or facility work, product manufacture, the use of chemicals in a process in excess of 40 pounds or 5 gallons (see [40 CFR 355](#), *Protection of Environment, Emergency Planning and Notification*), environmental restoration, or decommissioning activities.

The CHP applies to work with small quantities of chemicals where the work can be safely manipulated by one person and multiple chemical procedures or multiple chemicals are used.

1.3 Chemical Inventory Requirements

A list of the hazardous chemicals known to be present at the Laboratory is maintained in [ChemDB](#). Primary hazardous chemical containers must be barcoded, and entered and tracked in the database.

Note: Most primary hazardous chemical containers ordered through standard purchasing agreements will be delivered to the user with a barcode and will already be listed in [ChemDB](#).

The chemical owner is responsible for ensuring the entry was accurately made in [ChemDB](#) (e.g., owner, name of chemical, location). Some hazardous chemical containers (e.g., P-card purchases) may be delivered without a barcode. Chemical owners are responsible for barcoding these containers and entering them into [ChemDB](#). When a primary hazardous chemical container is transferred to a new owner and/or a new location; or is disposed, the chemical owner is responsible for updating [ChemDB](#).

Responsible Line Managers (RLMs) are accountable for accurate chemical inventories and are responsible for ensuring that physical inventories of their primary hazardous chemical containers are performed annually to verify the accuracy of the LANL institutional chemical inventory database (ChemDB). An annual reconciliation of the physical inventory results and update of [ChemDB](#) is required.

Note: Accuracy of the Laboratory's chemical inventory is very important. For example, in accordance with [40 CFR 370](#), *Protection of Environment, Hazardous Chemical Reporting: Community Right-to-Know*, "The owner or operator or the officially designated representative of the owner or operator must certify that all information included in the Tier II submission is true, accurate, and complete...under penalty of law..." The accuracy of the Laboratory's Tier II submittal (annual hazardous chemical report) is dependent on the accuracy of the Laboratory's chemical inventory.

For assistance with the [ChemDB](#), please submit a [ChemDB Footprints Request](#).

1.4 Material Safety Data Sheets/Safety Data Sheets (MSDS/SDSs)

Access to MSDS/SDSs is provided through a link on the [Chemical Safety Webpage](#).

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For chemicals acquired prior to December 1, 2015: MSDSs are available for all hazardous chemicals and hazardous chemical mixtures in [ChemDB](#) through the [LANL MSDS/SDS database](#). If specific manufacturer MSDS/SDSs are not available, refer to the Laboratory [Chemical Safety Webpage](#) for commercial MSDS/SDS databases.

For chemicals acquired after December 1, 2015, or for chemicals for which an SDS has been created: SDSs are available for all hazardous chemicals and hazardous chemical mixtures in [ChemDB](#) through the [LANL MSDS/SDS database](#). If specific manufacturer SDSs are not available, refer to the Laboratory [Chemical Safety Webpage](#) for commercial MSDS/SDS databases.

Manufacturer's MSDS/SDSs are provided to OCC Safety and Health Division-Industrial Safety and Hygiene Group as part of the I-procurement process. If a chemical owner has acquired the chemical through another process, e.g., Pcard, the manufacturer's MSDS/SDS must be provided to OCC Safety and Health Division-Industrial Safety and Hygiene Group.

Note: This does not apply to samples being submitted for analysis.

New chemicals developed at the Laboratory for internal use will be evaluated by the chemical owner to determine if they are hazardous (CHP only). If it is determined the chemicals are hazardous, the information will be included in the Integrated Work Document (IWD), thus allowing for the chemical workers to receive information on how to control the hazard. If the chemical produced is a byproduct whose composition is not known, the chemical will be assumed to be hazardous and handled accordingly. If an employee produces a new chemical, and plans to ship it off-site for use or distribution, an MSDS/SDS is required to be created and shipped with the chemical. For chemicals created at the Laboratory, ISH will be contacted for assistance in creating an MSDS/SDS.

1.5 Labels

Labels on containers, including primary containers, secondary containers, and stationary process containers must be maintained. This means that labels must be maintained in a manner that allows the information on the label to be legible. Chemical containers too small to be labeled may be placed in a secondary storage container with the required labeling; the chemical owner must return the containers to the secondary storage container when not in active use.

Note: All hazardous chemicals shipped after June 1, 2015, must be labeled with specified elements including pictograms, signal words and hazard and precautionary statements. However, manufacturers, importers, and distributors may start using the new labeling system in the revised HCS before the June 1, 2015 effective date if they so choose. LANL is not responsible for updating labels on shipped containers, even if the shipped containers are labeled under the 1994 Hazard Communication Standard, unless the labels have been removed or defaced. However, if there are newly identified hazards that are not disclosed on the label, RLMs and PICs must ensure that the workers are aware of the hazards as discussed below under workplace labels.

Primary chemical containers associated with the 1994 Hazard Communication Standard will have a label with the chemical name, and hazard warning. The hazard warning is a statement of the hazardous effect of the chemical (e.g., "flammable" or "causes lung damage") or a numerical rating such as that found on the NFPA label.

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When one transfers a material from the original manufacturer's container to other vessels, these vessels are referred to as "secondary containers." Secondary containers in HAZCOM areas will include the chemical name, creation date, hazard warning, and manufacturer. Secondary containers in CHP areas will include the name of the chemical, date created, and the owner of the container.

Stationary process containers (non-portable hazardous material containers) may be primary or secondary containers, and must be labeled in accordance with labeling requirements for primary or secondary containers. Stationary process containers must be labeled in such a way that facility personnel may identify the chemical hazards associated with the contents of the container. Stationary containers may be labeled with one of the following alternative methods: sign, placard, process sheet, batch ticket, operating procedure, or other written material. These alternatives to affixing labels directly to individual stationary process containers are acceptable, as long as the alternative method identifies the applicable containers, conveys the information required for a primary or secondary container, and is readily available to facility personnel, emergency management personnel, and chemical users.

Chemical containers with unknown chemical contents that are staged and awaiting characterization for a potential disposal path must be labeled, either on the container or within a secondary containment for the container, with:

- Point of Contact (POC) name and contact information,
- Organization, and
- Any known information, e.g., hazard class, project, date of receipt or creation.

Other chemical-containing facility equipment, process equipment or vessels, and piping must be labeled in accordance with the [STD-342-100 LANL Engineering Standards Manual](#).

Portable containers into which hazardous chemicals are transferred and which are intended only for the immediate use (i.e., use by one worker for one day, and always under the control of that one worker) of the chemical worker who performed the transfer are not required to be labeled. However, it is good practice to label the container with the name of the chemical and the owner.

Contact the CHO and OCC Safety and Health Division-Industrial Safety and Hygiene Group for assistance in developing labels

1.6 Methods Used to Inform Workers

Workers use the IWM process (see [P300, Integrated Work Management](#)) and [P300-1, Integrated Work Management for R&D](#) to develop a work document for the proposed work activity. The work document describes the scope, location, duration, hazards and environmental aspects, and controls (including PPE) to mitigate the hazards and negative environmental impact of the work. The IWD is used to authorize the work in accordance with [P300 Integrated Work Management](#) and [P300-1, Integrated Work Management for R&D](#). IWDs or other work documents will be used to address tasks involving hazardous chemicals.

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Responsible Line Managers (RLMs) will ensure that all work involving hazardous chemicals is reviewed for impacts on security, environment, safety and health, facility or equipment, and facility safety basis concerns in accordance with [P300 Integrated Work Management](#) and [P300-1 Integrated Work Management for R&D](#). At a minimum, the following steps will be performed:

1. Initially categorize hazardous chemical work in accordance with [P300 Integrated Work Management](#) and [P300-1 Integrated Work Management for R&D](#). If categorized as high hazard/complex work, assemble a hazard analysis review team (see [P300 Integrated Work Management](#) and [P300-1 Integrated Work Management for R&D](#)). In addition to the required members for the team, include deployed industrial hygienist(s), and other hazardous chemical Subject Matter Experts (SMEs).
2. Create a detailed description of the work for the IWD involving hazardous chemicals that identifies the hazards associated with performing the work.
3. Specify hazard controls within the IWD using the following hierarchy of controls.
 - a. Elimination or Substitution
 - b. Engineering Controls
 - c. Administrative Controls
 - qualifications
 - formal procedures
 - training
 - work practices
 - d. PPE

Note: Guidance for Preparing IWDs: Consider and understand the potential for generating new hazardous chemical-bearing waste streams. Consider substituting a less hazardous chemical and speak with your Waste Management Coordinator (WMC) before creating new waste streams.

4. Contact your deployed industrial hygienist to perform a qualitative exposure assessment in accordance with the [Laboratory Industrial Hygiene and Safety Manual](#) to evaluate the potential for worker exposure to hazardous chemicals.

Your deployed industrial hygienist will work with subcontractor personnel to ensure that the potential for subcontractor worker exposure to hazardous chemicals is evaluated before removing, remodeling, servicing, maintaining, or repairing laboratory equipment and exhaust systems.

5. As part of the [P300, Integrated Work Management](#) and [P300-1, Integrated Work Management for R&D](#) requirement processes for competent workers, RLMs are responsible for providing chemical workers, including subcontractors, with job-specific hazardous chemical information, including:

- any operations in their work area where hazardous chemicals are present;

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- the location and availability of the MSDS/SDS (and other references) associated with each hazardous chemical, including the Occupational Exposure Limit (OEL), signs and symptoms associated with exposures, safe handling, storage and disposal; and
- labeling requirements for primary containers, secondary containers, stationary process containers, and chemical-containing facility equipment, process equipment or vessels, and piping (see Section 1.5, *Labels*).

Job-specific information may be provided as training, per [P781-1, Conduct of Training](#). If job-specific information is determined by the RLM to not require formal training per [P781-1, Conduct of Training](#), this information may be provided in the form of a documented briefing (e.g., pre-job briefings, informational meetings). A tool to document this briefing is found on the LANL Chemical Safety webpage ([OSH-ISH-Form-005 Job-Specific Hazardous Chemical Information Checklist](#)).

1.7 Worker Exposure Assessments

Worker exposure assessments, including exposure monitoring, will be conducted in accordance with applicable sections of:

- [P101-21, Chronic Beryllium Disease Prevention Program](#)
- [P101-32, Worker Exposure Assessments](#)
- the [Laboratory Industrial Hygiene and Safety Manual](#)

1.8 Use and Maintenance of Laboratory Fume Hoods

Requirements that will be followed for the proper design, operation, and use of laboratory fume hoods are located in [P101-16, Industrial Ventilation \(non-HVACR\)](#).

1.9 Chemical Hygiene Officer (CHO) (Chemical Hygiene Plan [CHP] Only)

The LANL CHO resides in OCC Safety and Health Division-Industrial Safety and Hygiene Group. Each Division Leader will appoint a CHO to provide technical guidance to line management and chemical workers (CHP only). The CHO will be an authorized chemical worker with the education and experience to determine the hazards and consequences of exposure to the chemicals found in the chemical inventory.

1.9.1 Roles and Responsibilities (Based on [29 CFR 1910.1450, Labor, Occupational Safety and Health Standards, Occupational Exposure to Hazardous Chemicals in Laboratories, Appendix A \[nonmandatory\] and Prudent Practices for Handling Hazardous Chemicals in Laboratories](#))

LANL CHO:

- Establish, maintain, and revise the CHP.
- Create and revise CHP documentation.
- Communicate chemical safety lessons learned to Division CHOs for dissemination.

Division CHO:

- Liaise with the LANL CHO.
- Monitor procurement, use, and disposal of chemicals used in the Division.
- Seek ways to improve the LANL Hazard Communication and Chemical Hygiene program.

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Attachment A. LANL Hazard Communication and Chemical Hygiene Plan (Cont.) (Page 7 of 13)

- Perform MOVs with Division management of laboratories, preparation rooms, and chemical storage rooms.
- Assist laboratory owners in developing and maintaining adequate facilities.
- Provide assistance to Division members for proposed research activities that involve hazardous chemicals.

1.10 Safety Showers and Eye Washes

Safety Showers and Eye Washes will be maintained, inspected, and tested periodically as required by American National Standards Institute (ANSI)/International Safety Equipment Association (ISEA) z358.1-2009 *American National Standard for Emergency Eyewash and Shower Equipment*, with the exception of weekly activation of safety showers. Activation of safety showers will be done on a quarterly basis due to issues associated with containment of test water. See [LANL Operations and Maintenance Manual, Criterion 407: Emergency Eyewash and Shower Equipment](#).

1.11 Provisions for Additional Employee Protection

1.11.1 Work with Known Human Carcinogens, Reproductive Toxins

Special handling procedures are necessary to minimize exposures to known human carcinogens' and reproductive toxins. Note: if pregnant or planning a pregnancy, contact Occupational Safety and Health – Occupational Health OSH-OH). See [LANL Reproductive Health Assistance Program](#).

Handling procedures for these agents will be defined in laboratory or work authorization documents and approved by Deployed Environment, Safety, and Health Division personnel before initiation of work.

Specific consideration will be given to the following controls, to be used as appropriate for the agent and process: establishment of designated areas (i.e., areas that will be used for work with select carcinogens, reproductive toxins or substances which have a high degree of acute toxicity); use of containment devices such as laboratory fume hoods or glove boxes; procedures for safe removal of contaminated waste; and decontamination procedures (see [29 CFR 1910.1450, Labor, Occupational Safety and Health Standards, Occupational Exposure to Hazardous Chemicals in Laboratories](#) [e] [3] [viii]).

Decontamination is necessary before the affected work area may be released from “designated area” status. The type and level of decontamination must be defined. After decontamination, the area will no longer be considered a “designated area,” and all warning and control signs will be removed. A wet mop or a vacuum cleaner equipped with a High-Efficiency Particulate Air (HEPA) filter will be used instead of dry sweeping.

1.11.2 Additional Requirements for Carcinogens

A regulated area (an area where entry and exit is restricted and controlled) will be established in accordance with [29 CFR 1910 Subpart Z, Labor, Occupational Safety and Health Standards, Toxic and Hazardous Substances](#). See [OSHA, ACGIH A1, ACGIH A2, and ACGIH A3 Carcinogen List](#) for regulated area requirements for specific carcinogens.

Less-hazardous, non-carcinogenic chemicals that may be substituted for currently used carcinogens will be substituted when compatible with the work to be accomplished.

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Attachment A. LANL Hazard Communication and Chemical Hygiene Plan (Cont.) (Page 8 of 13)

All areas in which carcinogens are used or stored will meet the following conditions:

- Clearly marked by posting signs warning of a carcinogen hazard. Additional signs and labels are required when OSHA-regulated carcinogens are in use. See [P101-19](#), Safety Signs, Labels, and Tags and [Signs, labels and tags integral to safe operations](#).
- Signs posted prohibiting eating, drinking, gum chewing, smoking, or applying cosmetics or lip balm.
- Ventilation and hood performance that meet minimum requirements before beginning any new operations involving carcinogens. (See [P101-16](#), Industrial Ventilation [non-HVACR].)
- Evaluation of carcinogen storage and use using the [Laboratory](#) Industrial Hygiene and Safety Manual, Chapter 33, Carcinogens.

Decontamination procedures for equipment and facilities will be documented in an IWD before new carcinogens are used.

For carcinogens included in [29 CFR 1910.1003](#), *Labor, Occupational Safety and Health Standards, 13 Carcinogens*, these additional requirements apply:

- Avoid transferring carcinogens into secondary containers.
- Work with carcinogens will be conducted in a fume hood, sealed system, or other suitable engineering control.
- Wear full body protective clothing (smocks, coveralls, or long-sleeved shirt and pants), shoe covers, appropriate gloves and respiratory protection as described in [29 CFR 1910.1003\(c\)\(4\)\(iv\)](#).
 - Wash hands upon completion of work with carcinogens.

For laboratory areas that fall under [29 CFR 1910.1450](#), *Occupational Exposure to Hazardous Chemicals in Laboratories* these requirements apply:

- Employee exposure is below the OEL,
- Eye and skin contact is prevented using the hierarchy of controls, and
- Use of the carcinogen meets the following conditions:
 - Chemical manipulations are carried out on a "laboratory scale;"
 - Multiple chemical procedures or chemicals are used;
 - The procedures involved are not part of a production process, nor in any way simulate a production process; and
 - "Protective laboratory practices and equipment" are available and in common use to minimize the potential for employee exposure to hazardous chemicals.

1.11.3 Evaluation of Laboratory Operations

Before laboratory tests or chemical reactions begin, evaluations must be made for hazards that may be encountered or generated during the course of the work.

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Evaluations must include the hazards associated with the properties and the reactivity of the materials used and any intermediate and end products that can be formed, hazards associated with the operation of the equipment at the operating conditions, and hazards associated with the proposed reactions, for example, oxidation and polymerization.

Where reactions are being performed to synthesize materials, the hazard characteristics of which have not yet been determined by test, precautions must be employed to control the highest possible hazard based on a known hazard of similar material.

Where use of a new material might present an explosion potential, initial experiments or tests must be conducted in an enclosure that is designed to protect people and property from potential explosion damage.

Unattended or automatic laboratory operations involving hazardous chemicals must be equipped with regular surveillance for abnormal conditions.

1.12 Personal Protective Equipment (PPE)

The Laboratory requires that suitable clothing and equipment be used to protect workers and others in Laboratory spaces from hazards in the workplace. PPE is intended to protect the body (including eyes, face, feet, hands, head, hearing, and respiratory system) from hazards capable of causing injury, illness, or impairment of bodily function. No protective material will provide full protection against all hazards. PPE is considered for use as a hazard control strategy only after it has been determined that elimination, substitution and engineered and administrative controls are not feasible, or in the interim while engineered and administrative controls are being designed and implemented. Proper PPE will be identified in the work authorization documentation.

The level of protection and type of PPE selected will match the applicable hazards. See [P101-6](#), *Personal Protective Equipment*.

1.13 Flammable Liquids Storage Cabinets

A flammable liquids storage cabinet is a cabinet that is Underwriters Laboratories listed or Factory Mutual approved for storage of flammable liquids. The Fire Protection Division should be contacted for questions on what qualifies as a flammable storage cabinet and the chemical limits.

Not more than 60 gallons of Class I and/or Class II liquids, or not more than 120 gallons of Class III liquids may be stored in an individual cabinet. Storage cabinets shall be designed and constructed to limit the internal temperature to not more than 325°F when subjected to a standardized 10-minute fire test. Storage cabinets shall be conspicuously labeled, "Flammable - Keep Fire Away."

The bottom, top, door, and sides of metal cabinets shall be at least No. 18 gage sheet metal and double walled with 1½-inch air space. The door shall be provided with a three-point lock, and the doorsill shall be raised at least 2 inches above the bottom of the cabinet.

Note: Do not store compressed gases in these cabinets. Compressed gases must be stored in accordance with requirements found in [P101-34](#) Pressure Safety.

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1.14 Hydrofluoric Acid (HF)

Hydrofluoric Acid (HF) is a particularly dangerous acid because of its unique ability among acids to penetrate tissue. This ability to penetrate tissue allows HF to cause severe systematic toxicity from even relatively small dermal exposures. For this reason, the following requirements and recommended safe practices apply to work with HF:

Requirements:

- Substitute less hazardous fluoride compounds, where possible, e.g., use aluminum fluoride instead of HF to remove silicates from aqueous solutions.
- An Integrated Work Document (IWD) (see [P300](#), *Integrated Work Management* and [P300-1](#) *Integrated Work Management for R&D*) is required for work with HF. The IWD must include the first-aid procedure in case of an exposure and what to do in case of a spill.
- As required in [P300](#) *Integrated Work Management*, the IWD must be readily accessible where the activity is being conducted.
- A Material Safety Data Sheet/Safety Data Sheet (MSDS/SDS) must be available.
- Before working with HF, workers must read the MSDS/SDS, read the IWD, complete training on the first-aid procedure in case of an exposure, and know what to do in case of a spill.
- Workers must be authorized in accordance with the requirements in [P300](#), *Integrated Work Management* and [P300-1](#) *Integrated Work Management for R&D*.
- Workers who work with HF must be trained on first aid procedures associated with HF exposure (see LANL Course #44498, First Aid Response to Hydrofluoric Acid).
- Personal protection by engineered controls, personal protective equipment, or a combination is required for HF use. Controls must be commensurate with the HF hazard represented by a specific use or process involving HF. Your deployed industrial hygienist will assist in the development of and approve personal protective equipment and engineered controls for HF uses and processes through IWD development.
- A calcium gluconate skin exposure mitigation kit must be located in close proximity to the work involving HF, and must be in place before work begins. The kit must be replaced with new stock annually. A list of HF first-aid trained personnel must be posted near the kit.
- An HF spill kit must be available with calcium compounds such as calcium carbonate, calcium sulfate, or calcium hydroxide. It is advised that facilities that use or handle HF maintain on hand adequate compatible spill control materials to absorb or contain the volume of the largest volume container of HF commonly within the facility. In facilities with a “no spill cleanup” policy, these materials will supplement that which is immediately available to Hazardous Material (HAZMAT) first responders. Sodium bicarbonate should never be used with an HF spill since it does not bind the fluoride ion and can generate toxic aerosols.

Safe Practices

- Never work alone with concentrated (approximately six molar (M) or greater) HF or large volumes of dilute HF; use a buddy system. It is highly recommended that HF work not be conducted during hours when facilities may have minimum personnel such as nights and weekends, so there are adequate personnel to render aid in the event of an accident or spill.
- Use an HF-compatible tray or other suitable container while working with HF for containment in case of a spill.

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- Store HF in compatible materials (e.g., Teflon, fluorinated ethylene propylene, polyethylene, etc.) containers and keep containers closed.
- Label all nonoriginal containers that contain HF and solutions other than that for immediate use (See Section 1.5).
- Store the stock HF in HF-compatible plastic secondary containment and label the cabinet as containing HF. Store HF in lower cabinets near the floor. Store HF with other inorganic acids and away from bases, flammables, or oxidizers.
- Wash or wipe gloves with water before removing them, if permissible, by specific laboratory protocols.
- Protect exposed skin and nonresistant or absorbent clothing through:
 - enclosed processes and uses,
 - chemical fume hoods with sash down,
 - gloveboxes with HF-compatible gloves and windows,
 - specially engineered process enclosures, e.g., ventilated cabinets,

Note: Concentrated HF and hydrogen fluoride gas from reactions can etch the glass hood sash on a fume hood and make it hard to see through. If the hood sash becomes fogged and hard to see through because of etching, contact your Facility Operations Director (FOD) representative about installing a polycarbonate sash. In some cases, hood sashes as well as glove box windows may be protected before exposure with a transparent film of Polyvinylidene Fluoride (PVDF, Kynar, Hylar, and Sygef) or other HF-resistant plastic.

- HF-resistant rubber or plastic apron,
- HF-resistant plastic arm coverings,
- HF-resistant gloves and glove combinations,
 - incidental use of dilute acid solutions—double gloves with heavy nitrile exam gloves; re-glove if there is any exposure to the gloves,
 - extended use of concentrated acid—heavy neoprene or butyl gloves worn over nitrile gloves,
 - fluorinated polymer gloves for high-concentration and/or high-concentration HF gas exposure,
- closed toe shoes or chemical resistant boots,
- long pants and a long-sleeve shirt with a reasonably high-neck (not low-cut).
- Protect the face and eyes through
 - safety glasses in conjunction with chemical fume hoods with sash down (dilute solutions),
 - splash goggles in conjunction with a fume hood sash (high-concentration, high-reactivity process), and
 - face shield in conjunction with splash goggles (open processes, open hood sash).

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1.15 Emergency Procedures

Emergency procedures will be in accordance with requirements contained in [P1201-4](#), *LANL Incident Reporting and Protective Actions*.

1.16 Medical Surveillance

Medical surveillance requirements will be in accordance with requirements contained in [P102](#), *Occupational Health*.

1.17 Worker Information, Training and Authorization

Chemical workers who work with hazardous chemicals will receive training about those chemicals before they begin work. Chemical workers receive this training through a combination of formal training, reading assignments and job-specific information as specified in the work authorization documentation. Chemical workers who work in areas where hazardous chemicals are used, but who do not work directly with such chemicals, will be made aware of the hazards before they begin work in those areas. Formal training will be conducted and documented in accordance with Laboratory training policy. Chemical workers will be trained on chemicals in use in their workplace at the time of initial assignment and whenever new hazards are introduced. See Section 6.0 of this document. Chemical workers may also access [OPEX at LANL](#) for lessons learned on hazardous chemicals.

1.18 Use of Non-medical Sharps

- Use the correct tool for the job, i.e., a box cutter to open or break down boxes.
- Do not shear, clip, or bend needles. Do not recap used disposable hypodermic needles. Do not remove used disposable hypodermic needles from the syringe. If you are using a glass syringe and a non-disposable needle, use extreme caution when recapping the needle, or removing the needle. To recap a non-disposable needle, use either a one-handed "scoop" technique or a mechanical device designed for holding the needle sheath.
- Do not walk with an unprotected sharp.
- Dispose of sharps at the point of use.
- Use needleless systems, or a blunt needle whenever possible.
- Organize your workspace so that all materials for the experiment are ready and available before accessing the sharp device. This helps reduce the chance of having to set an exposed needle down on the lab bench in order to retrieve other necessary supplies.
- Be prepared to use the device the moment the sharp is exposed (e.g., when the needle is uncapped, the razor blade removed from its wrapper).
- Make sure you have adequate lighting to perform the task involving the sharp.
- Keep exposed sharps pointed away from yourself and others.
- Never directly hand an exposed sharp to another person. Instead, designate a "sharps passing zone" where exposed sharps are set down prior to being picked up by another person.
- Be accountable for the sharps you use.
- Look around after you complete your work and make sure that all sharps have been disposed of properly.

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- Store sharps in a safe manner. Protect the sharp with a cap, cover, or store it in a rigid container.
- Use a dedicated, labeled sharps storage area.

Disposal of Non-medical Sharps:

- Hypodermic needles and contaminated sharps must always be discarded in an approved, rigid, leak-proof sharps container. Do not overfill the container. Do not open sharps containers. Note: sharps containers for personal medical use are available at Occupational Medicine.
- Do not discard loose sharps or sharps containers in the regular trash.
- **Broken glass:** (no regulated chemical or biohazard contamination): Carefully sweep up any broken pieces into a dustpan and place them in a hard sided closed container (e.g., cardboard box) labeled “broken glass” with the technical area (TA), building number, room number and generator’s name written on the container. The container may be placed in the regular trash provided the broken glass is not contaminated; coordinate disposal with your WMC.
- **Chemical contaminated sharps:** Store in leak-proof, rigid, puncture-resistant containers that are manufactured for the purpose of sharps containment and are taped closed or tightly lidded to preclude loss of contents. Label and manage in accordance with regulatory requirements for the material with which they are contaminated. Contact your WMC for assistance.
- **Uncontaminated (no rad, chemical, or biological) Sharps:** Store in leak-proof, rigid, puncture-resistant containers that are manufactured for the purpose of sharps containment and are taped closed or tightly lidded to preclude loss of contents. Label the container “non-infectious and non-hazardous waste” with the TA, building number, room number and generator’s name written on the container. The container can be placed in the regular trash; however, coordinate with your WMC.
- **New Mexico special waste sharps (infectious waste sharps):** Refer to ADESH-AP-Tool-500 *Management of New Mexico Special Waste*.
- The [Chemical Safety Webpage](#) also contains guidance on [Working with Sharps](#) and [Management of Waste Sharps](#).

IMPORTANT

If you wish to receive credit for the preceding document you **must** enter the course through [UTrain](#) **not** the Policy Office website.



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**LOGISTICS DIVISION
MAINTENANCE OPERATION INSTRUCTION**

TITLE ASPHALT BATCH PLANT OPERATION

| <u>Name</u> | <u>Organization</u> | <u>Date</u> | <u>Signature</u> |
|--|---------------------|-------------|-------------------|
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1.0 PURPOSE/SCOPE

This document provides requirements and instruction for the operation of the Asphalt Batch Plant (ABP).

This instruction applies to all MSS personnel responsible for work performance in support of the ABP.

2.0 DEFINITIONS/ACRONYMS

ASM – Acquisitions Services Management

Asphalt Batch Plant (ABP) – A machine designed to heat asphalt and aggregate mix to specified proportions, and discharge it into a truck for delivery to the job site.

CFR – Code of Federal Regulations

DEP—Deployed Environmental Professional

°F – Degrees Fahrenheit

ENV-ES – The operational group in the Environmental Protection Division (ENV) that provides environmental compliance assistance with air quality regulations

ENV-RCRA - The operational group in the Environmental Protection Division (ENV) that provides environmental compliance assistance with water resources and hazardous/solid wastes regulations

ES&H – Environment, Safety, & Health

Heat Transfer Oil Heater – A machine designed to heat asphalt and circulate oil through a series of coils. The coils heat the asphalt in a separate tank.

Hot Mix –A mixture of asphalt binder and graded mineral aggregate mixed at an elevated temperature and compacted to form a relatively dense pavement layer.

IWD – Integrated Work Document

HERG – Heavy Equipment Roads & Grounds

LO/TO – Lockout/Tagout

MM – Maintenance Manager

Mix Design – Performance based mix for which the number, type, and proportions of ingredients are determined by the engineer with the objective of producing asphalt having certain strength, gradation, flow and durability.

MSDS – Material Safety Data Sheets

MSS – Maintenance & Site Services

NMED – New Mexico Environment Department

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NM DOT- New Mexico Department of Transportation

PM – Preventative maintenance

PPT – Pollution Prevention Team

SPCC—Spill Prevention, Control, and Countermeasures rule includes requirements for oil spill prevention, preparedness, and response to prevent oil discharges to navigable waters including implementation of a site-specific plan.

SWPPP – Storm Water Pollution Prevention Plan is a site-specific document that identifies the regulated industrial activity and the controls implemented to prevent pollutants from being transported from the site by storm water runoff.

3.0 ROLES AND RESPONSIBILITIES

Roles and responsibilities for personnel who will ensure implementation of this document, e.g, Maintenance Manager, Maintenance Coordinator, Superintendent, Supervisor, and Work Provider, can be found on P 950, *LANL Conduct of Maintenance* and P 313, *Roles, Responsibilities, Authorities, and Accountability*, for a listing of maintenance program roles and responsibilities.

3.1 Roads Section Superintendent

The Craft Superintendent is responsible for the operation of the ABP. The superintendent will establish the job qualifications for craft personnel, arrange for necessary training, establish and maintain program records and documentation, and enforce procedure requirements during work performance.

The Craft Superintendent is responsible for determining the necessary qualifications and training required to perform work supporting ABP operation, for developing the necessary procedures and checklists, and for ensuring that the program records and documentation are properly completed.

3.2 Operator Foreman

The operator foreman is responsible for the assignment of qualified and properly trained craft personnel to this work. The foreman will ensure that the necessary materials, equipment, tools or other resources needed to complete the work are available to the craft personnel. The foreman will also ensure that the craft personnel complete the work according to the procedure and the work checklist(s), as appropriate, and that all documentation is verified correct.

3.3 Deployed Environmental Professional

The Deployed Environmental Professional (DEP) is responsible for assisting the facility in maintaining compliance with applicable environmental regulations. The DEP will assist in

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developing, updating, and maintaining a site-specific Storm Water Pollution Prevention Plan (SWPPP) and a Spill Prevention, Control, and Countermeasures (SPCC) Plan; performing required inspections; and recommending measures to address environmental compliance concerns.

4.0 SAFETY

The PIC, Supervisor, or Foreman shall ensure the work package is complete in accordance with P 950, *LANL Conduct of Maintenance* and AP-WORK-002, *Work Planning*.

Before work is started, the Supervisor/Foreman shall conduct a pre-job briefing with the craft worker(s) to include: job assignment, hazards involved by reviewing the IWD approved and signed by a qualified person, training requirements, job site procedures, necessary safety equipment, personal protective equipment, and Material Safety Data Sheets (MSDS) information.

| | |
|---|--|
|  | HOT ASPHALT CAN CAUSE SEVERE BURNS. |
|---|--|

Refer to the IWD for required PPE when working outside the control room. Wear gloves when handling the unloading hose.

The craft is responsible for understanding the hazards and hazard controls (including **STOP WORK**) identified for the work tasks in the IWD. Notify the Supervisor or Foreman when a change in the scope of work is identified, or process or hazard conditions change (refer to P101-18, *Procedures for Pause/Stop Work*, P300, *Integrated Work Management*).

All changes to the scope of work and/or newly identified hazards and process changes must be addressed in a revised IWD subject to signature and approval by a qualified person. The job must be stopped until the IWD is revised and approved. All workers must be briefed on the revised IWD prior to restart of work.

No personnel shall be allowed to enter confined spaces without proper training and written procedures for each confined space.

Equipment must be de-energized as required in P101-3, *Lockout/Tagout for Hazardous Energy Control*. Follow LO/TO procedures to perform any electrical work except when troubleshooting before or during maintenance. All personnel shall comply with current LO/TO procedures when performing pre-operational or post-operational inspections or preventative maintenance.

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5.0 QUALIFICATIONS

Personnel performing tasks in this procedure must have a working knowledge of asphalt batch plant operations or be working under the direction of a qualified operator.

6.0 TRAINING

Personnel will receive training in the overall Laboratory ES&H policy. No activity or operation will be performed at the Laboratory unless it can be performed in a manner that is protective of employees, the public, and the environment. Accomplishing these goals requires a team effort on the part of all employees and line managers.

Required training or equivalent:

- Spill Prevention, Control, & Countermeasure and site-specific SPCC plan (annual)
- Basic Fall Protection
- Personnel Protective Equipment
- Chemical Hazard Communication
- Gas Cylinder Safety
- Hearing Conservation
- Ladder Safety
- LO/TO Hands-on Hazardous Energy Control
- Aerial Platform Lift Operator
- Storm Water Pollution Prevention Plan site-specific (annual)

7.0 SPECIAL INSTRUCTIONS

Submit any corrections or recommendations for improvement to this procedure to the Craft Superintendent.

7.1 Off-normal events

Report unusual events or incidents in accordance with P 322-3, *Manual for Communicating, Investigating, and Reporting Abnormal Events*. Report any structural or equipment deficiencies observed during the performance of work to the Operator Foreman so that immediate remedial action can be taken, if required.

Any malfunction of the ABP or environmental controls that may increase air emissions, result in uncontrolled stormwater discharges, or is a spill or release of material must be reported to the DEP for the plant as soon as possible. Malfunctions may need to be reported to NMED within a short period of time.

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7.2 Title V Operating Permit (Air Quality)

- A visible emission observation, as required by the Title V Air Quality permit, must be performed monthly by a certified reader as early in the month as possible and preferably during the first run of the month.
- A visible emission observation is not required for those months the plant does not operate.
- Contact the DEP for the plant if visible emissions are greater than normal, if there are visible emissions from the bag house stack, or to have a monthly observation performed.
- Observation documentation is maintained at the Asphalt Batch Plant Office.
- Plant dust collection system leaks will be repaired immediately to ensure that no dust escapes into the environment which may be in violation of the New Mexico air quality regulations. Notify the plant DEP of any malfunction or problems with the dust collection system immediately. Other data required by the air permit includes entries found on the daily operating log, Form 41-20-001.2.

7.3 SPCC Requirements

- The ABP is required to have a Spill Prevention Control and Countermeasures (SPCC) Plan per 40 CFR Part 112. The purpose of this plan is to provide spill prevention and response measures to prevent oil related spills from polluting navigable waters of the United States through implementation of adequate prevention and response measures.
- The plan is prepared, maintained, and updated by ENV-RCRA and/or the DEP; a copy is maintained on-site at the ABP office.
- Oil handling personnel must be trained in the operation and maintenance of equipment to prevent discharges, spill response actions, applicable regulations, general plant operations, and the contents of the SPCC plan.
- Inspections must be conducted daily, monthly, and annually.
 - Daily inspections (good housekeeping and general safety) are performed by plant operators to check for spills, leaks, obvious problems with tanks or lines, and general conditions. Daily inspections are documented on the Asphalt Batch Plant Daily Inspection Checklist Form 41-20-001.1
 - Monthly and annual inspections are performed by a LANL ENV-RCRA representative or DEP and documented on forms found in the site SPCC plan.
- Contact the DEP with information about spills or off-normal conditions so that the required and timely notifications to regulatory agencies can be made and the SPCC records can be updated.

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7.4 SWPPP Requirements

- Discharges of storm water from the ABP are regulated under the NPDES Multi-Sector General Permit for storm water discharges associated with industrial activities.
- The ABP is required to have a Storm Water Pollution Prevention Plan (SWPPP) to document site description, potential pollutant sources, descriptions of control measures, areas where spills and leaks have occurred, and procedures to maintain control measures. The plan is prepared, maintained, and updated by ENV-RCRA and/or the DEP; a copy is maintained on-site at the ABP office.
- The ABP is required to have a Storm Water Pollution Prevention Team (PPT) per the SWPPP. The PPT consists of operations and management personnel from the ABP, ENV-RCRA storm water personnel, and a DEP. PPT members are responsible for assisting the facility manager in developing and revising the facility’s SWPPP as well as maintaining control measures and taking corrective actions where required.
- SWPPP compliance inspections must be conducted monthly, quarterly, and annually by the DEP or an ENV-RCRA storm water inspector and documented on the appropriate SWPPP inspection forms. Copies of the completed inspection forms are maintained in the SWPPP at the facility. Contact the DEP with information about spills or off-normal conditions so that the required and timely notifications to regulatory agencies can be made and the SWPPP records can be updated.

8.0 OPERATIONS

8.1 Site Structures

This site has been assigned structure numbers as follows:

- TA-60-233 – Control House
- TA-60-234 – Batch Tower
- TA-60-235 – Dryer
- TA-60-236 – Asphalt Tank
- TA-60-237 – Baghouse

8.2 Process Overview

The primary function of the facility is to produce asphalt for the Laboratory by using a “batch” process (as needed per project). The asphalt batch is then transferred to trucks for delivery to project sites. An overview of the plant’s operational process is as follows: Aggregate material, used as feed stock for the asphalt production, is stockpiled on the west side of the property. There is at least one and sometimes more piles of material stored on the ground. The volume of stockpiled aggregate material on site at any given time is approximately 3,000 cubic yards.

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Front-end loaders transfer the aggregate material from stockpiles to a hopper/feeder unit and the material is then mechanically fed to the asphalt processing plant. The processing plant (a BDM Model TM2000 Asphalt Plant) includes a Hopper/Feeder Bin attached to a Conveyor Belt (Structure 60-233), and a Batch Tower with Drop and Dryer Unit (Structure 60-236).

Asphalt emulsion oil and heated aggregate are mechanically mixed in the Batch Tower (Structure 236).

Processed asphalt is transferred (dropped) from the Batch Tower into delivery trucks. Air emissions are controlled by Bag House (Structure 60-235). Air emissions from the facility are regulated under the NMED Title V Air Quality Permit issued to LANL.

Reference Attachment 41-20-001.5, *Asphalt Batch Plant Flow Diagram*.

Any change to the plant, either physical or operational, needs to be communicated to the DEP prior to the change to verify it is compliant and environmental requirements.

8.3 Material Acceptance Criteria

- A qualified Materials Test Lab will approve and accept aggregate prior to use.
- A qualified Material Test Lab will approve and accept the hot mix according to work order specifications.

8.4 Hours of operation

Under the Title V Permit (Air Quality), the plant is authorized to operate during daylight hours between one-half hour after sunrise and through one-half hour before sunset each day of the year. This limitation on operating hours does not apply to the use of the hot oil heater or the loading and/or hauling of asphalt products or materials.

NOTE: Production is limited to 4380 hours/year or 13,000 tons/year, whichever occurs first. The rolling totals are compared to permit limits and reported to NMED twice annually by ENV-ES.

8.5 Operational Inspections and Checklist

- Pre-operational, start-up, operational, and shutdown steps are documented on Form 41-20-001.1, *Asphalt Batch Plant Daily Operational Checklist*.
- The operator will document completion of the steps on the checklist for each day of operation during an operational week.

- The operator foreman will review the Asphalt Batch Plant Daily Operational Checklist 41-20-001.1, and the Asphalt Batch Plant Daily Operating Log 41-20-001.2 with craft personnel prior to executing the work.
- Prior to beginning operations, the ABP operator will complete the checks in Section 1 on Form 41-20-001.1, *Asphalt Batch Plant Daily Operation Checklist* to ensure that the heat transfer oil heater can be operated properly; there are no visible maintenance problems, leaks, or spills; and the equipment can be operated without safety and environmental concerns.
- The operator will record information required by the air permit on Form 41-20-001.2, *Asphalt Batch Plant Daily Operating Log*. This data must be submitted to the plant DEP within 14 days following the end of the operational month recorded.
- During production the operator will complete and document the start-up and operation checks in Section 2 on Form 41-20-001.1, *Asphalt Batch Plant Daily Operation Checklist*.
- When daily production is completed, the operator will complete and document the shutdown checks in Section 3 on Form 41-20-001.1, *Asphalt Batch Plant Daily Operation Checklist*.
- Review and update Form 41-20-001.1, *Asphalt Batch Plant Daily Operation Checklist*.at least annually or when operating parameters change.

CAUTION

DO NOT OPERATE THE PLANT IF THERE ARE ANY SAFETY HAZARDS OR ENVIRONMENTAL CONCERNS. NOTIFY SUPERINTENDENT IF ANY HAZARDS ARE PRESENT.

CAUTION

DO NOT OPERATE THE PLANT IF THE DUST COLLECTION SYSTEM IS NOT OPERATING PROPERLY.

CAUTION

If any of the following items fail to pass inspection, the operator will halt operations and secure the hot plant until repairs are made.

CAUTION

Inspect hot mix for proper mixing so that, no dry or oily streaks are visible.

| | | |
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|  | <p style="text-align: center;"><i>Maintenance & Site Services</i> Maintenance Operating Instruction Asphalt Batch Plant Operations</p> | <p style="text-align: right;">41-20-001 R1 Page 12 of 15</p> |
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9.0 PREVENTATIVE MAINTENANCE AND CALIBRATION

9.1 Preventative Maintenance

- Plant preventative maintenance will be scheduled through the MSS work order/planning system and performed semi-annually.
- Preventative maintenance will be performed and documented using Form 41-20-001.3, *Asphalt Batch Plant PM Inspection & Lubrication Checklist*.
- Copies of maintenance records will be maintained at the plant and in the work order/planning system.

9.2 Batch Plant Equipment Requirements – Calibration and Testing

9.2.1 Calibration of the plant scales, load sensors, asphalt flow meter, and asphalt temperature indicating instruments will be performed as required in applicable NMDOT standard specifications and in accordance with LANL policy P330-2, “*Control and Calibration of Measuring and Test Equipment (M&TE)*.”

9.2.2 Calibration will be documented on Form 41-20-001.4, *Asphalt Batch Plant Calibration Compliance*.

9.2.3 Plant Scales (NMDOT 423.3.4.1.1)

- Ensure that the scales are accurate to 0.5% of the maximum allowable load in accordance with NMDOT standard 432.3.4.1.1.
- Annually calibrate Load Plant Scales for batched asphalt.

9.2.4 Weigh Box or Hopper (NMDOT 423.3.4.1.9.1)

- Ensure that the ABP can accurately weigh aggregate in a weigh box or hopper suspended on scales using a weigh box or hopper than can hold a full batch. Ensure that the gate of the weigh box or hopper does not allow material to leak into the mixer while being weighed.
- Annually calibrate Load Sensors for aggregate in accordance with NMDOT standard 432.3.4.1.9.1.

9.2.5 Asphalt Binder Control (NMDOT 423.3.4.1.9.2)

- Measure the asphalt binder with equipment accurate to $\pm 0.3\%$
- Annually calibrate Asphalt Flow Meter in accordance with NMDOT standard 432.3.4.1.9.2.

9.2.6 Asphalt Thermometers (NMDOT 423.3.4.1.7)

- Ensure the asphalt feed line, near the charging valve at the mixer unit, is equipped with an approved recording thermometer with a range from 100°F to 400°F.

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- Ensure the discharge chute of the drier is equipped with an approved recording thermometer to automatically register the temperature of the heated aggregates or mix, as applicable.
- Annually calibrate thermometers per NMDOT 432.3.4.1.7.

10.0 RECORDS

10.1 Forms and Checklists

- Prepare all forms and checklists required to operate the ABP in accordance with this document.
- Form 41-20-001.1, *Asphalt Batch Plant Daily Operation Checklist*. The purpose of this form is to document daily activities associated with heat transfer oil heater pre-operational inspection, start-up, and shut down. This ensures that the ABP can be operated safely and without environmental concerns. The operator foreman will review the checklists with the craft personnel prior to and after executing the work
- Form 41-20-001.2, *Daily Operating Log*. The purpose of this log is to document operational data as required for compliance with NMED Title V Air Quality Permit issued to Los Alamos National Laboratory. This data must be submitted to the plant DEP within 14 days following the end of the month recorded. This data is used to calculate emissions and is submitted to the State as a monitoring record. The DEP will scan the log and return it to the ABP.
- Form 41-20-001.3, *Asphalt Batch Plant PM Inspection and Lubrication Checklist*. This checklist is used to document or list required routine maintenance inspections and actions. The PM will be conducted semiannually and documented using this checklist.
- Form 41-20-001.4, *Asphalt Batch Plant Calibration Compliance*. The purpose of this form is to document performance of required calibrations.

10.2 Records Generated by this Operation

- 41-20-001.1: Asphalt Batch Plant Daily Operation Checklist
- 41-20-001.2: Asphalt Batch Plant Daily Operating Log
- 41-20-001.3: Asphalt Batch Plant PM Inspection and Lubrication Checklist
- 41-20-001.4: Asphalt Batch Plant Calibration Checklist

10.3 Environmental Compliance

- Title V Air Quality Visual Emissions Observation

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- SPCC Plan, inspections, reports, and updates
- SWPPP inspections, reports, and updates

10.4 Records Disposition

Maintain records in accordance with AP-MSS-003, *MSS Records Management Program*.

All forms generated by this procedure must be maintained on site.

All Title V Air Quality Permit compliance records; SPCC Plan and records; and SWPP Plan and records must be maintained on site.

The operator will acknowledge the amount of oil/propane aggregate received on the shipping manifest form and will forward it to the ASM Property Management.

11.0 REFERENCES

| Document No. | Title |
|--|--|
| AP-MSS-003 | MSS Records Management Program |
| AP-WORK-002 | Work Planning |
| P 101-3 | Lockout/Tagout for Hazardous Energy Control |
| P 313 | Roles, Responsibilities, Authorities, and Accountability |
| P 315 | Conduct of Operations Manual |
| P 322-3 | Manual for Communicating, Investigating, and Reporting Abnormal Events |
| P330-2 | Control and Calibration of Measuring and Test Equipment (M&TE) |
| P 950 | LANL Conduct of Maintenance |
| NMDOT Standard Specification for Highway and Bridge Construction | Section 432 HOT-MIX ASPHALT — SUPERPAVE (QLA and Non-QLA) |
| | LANL Title V Operating Permit (Air Quality) |
| | TA60 Asphalt Batch Plant SPCC Plan |
| | TA60 Asphalt Batch Plant SWPPP |

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|  <p>Los Alamos NATIONAL LABORATORY EST. 1943</p> | <p><i>Maintenance & Site Services</i> Maintenance Operating Instruction Asphalt Batch Plant Operations</p> | <p>41-20-001 R1 Page 15 of 15</p> |
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12.0 ATTACHMENTS

- 41-20-001.1: Asphalt Batch Plant Daily Operation Checklist
- 41-20-001.2: Asphalt Batch Plant Daily Operating Log
- 41-20-001.3: Asphalt Batch Plant PM Inspection and Lubrication Checklist
- 41-20-001.4: Asphalt Batch Plant Calibration Checklist
- 41-20-001.5: Asphalt Batch Plant Flow Diagram



Logistics Division
 Maintenance Operating Instruction
Asphalt Batch Plant Operations
41-20-001.1: ASPHALT BATCH PLANT DAILY OPERATIONAL CHECKLIST

START DATE:

END DATE:

PART 1- Place a **Checkmark** if the condition is **OK** or **AR** (Action Required) if not. Explain ARs in Part 2.

SECTION 1:

HEAT TRANSFER OIL HEATER AND OIL TANK PRE-OPERATIONAL INSPECTION

| ACTION | MON | TUE | WED | THU | FRI | SAT | SUN |
|---|-----|-----|-----|-----|-----|-----|-----|
| Mark days plant is in operation for completion of checklist. For periods when plant is not in operation, complete Section 1 of checklist once a week. | | | | | | | |
| Inspect heat transfer oil heater and oil level weekly. If necessary, refill to at least 1/2 of capacity. Use heat transfer oil No. 1 only. | | | | | | | |
| Inspect heat transfer oil pump for leaks, ensure shaft is free. Repair/adjust if necessary | | | | | | | |
| Inspect heat transfer oil pump drive coupling. Should be secure, not loose or worn. Adjust/replace as necessary. | | | | | | | |
| Inspect electric drive motors, heat transfer oil pump, flower fan, and mount. Ensure wiring is secure. Adjust if necessary. | | | | | | | |
| Inspect temperature setting control valve. Maximum operating temperature should be between 250° F and 360°F | | | | | | | |
| Check oil tank and pad for spills, leaks, and problems with lines or containment | | | | | | | |
| Repair any oil leaks before starting Operations | | | | | | | |
| No general safety concerns identified. | | | | | | | |

SECTION 2:

START-UP AND OPERATION

| | | | | | | | |
|--|--|--|--|--|--|--|--|
| Check the asphalt temperature before starting. Check again every hour to ensure that the temperature does not drop below 250° F. | | | | | | | |
| Check propane tank. Re-order propane when the tank is 15% of capacity or less. | | | | | | | |
| Power On per manufacturer's recommendations, including fuel pumps propane, air compressor, asphalt pump forward, pug mill mixer, exhaust fan, burner blower, vibratory screen, hot elevator, dryer, incline conveyor, scalping screen, collector conveyor, cyclone screw, baghouse, feeders aggregate limit, dump aggregate hopper, mixer, and dump oil. | | | | | | | |
| Weigh required amounts of heated aggregate from three aggregate bins. | | | | | | | |
| Dump weighed aggregate into pug mill for mixing. | | | | | | | |
| Process two tons of aggregate (two batches) without asphalt oil through the system to ensure plant and aggregates are at working temperature of not less than 250° F. Do not exceed 360° F. | | | | | | | |
| Weigh aggregates and asphalt to mix design proportion; dump into pug mill and mix for approximately 60 seconds. | | | | | | | |
| After dump truck beds have been properly sprayed with a light mist of Zep, Operator will dump hot mix into trucks. Repeat process until desired tonnage is loaded into truck. | | | | | | | |

SECTION 3:

SHUTDOWN

| | | | | | | | |
|--|--|--|--|--|--|--|--|
| Shutdown the plant in reverse order of start-up, including dump oil, mixer, dump aggregate hopper, feeders aggregate limit, baghouse, cyclone screw, collector conveyor, scalping screen, incline conveyor, dryer, hot elevator, vibratory screen, burner blower, exhaust fan, pug mill mixer, asphalt pump forward, air compressor, and fuel pumps propane. NOTE: The incline conveyor and belt feeders will be shutdown first to stop material flow into the plant. As the material flow stops, the dryer flame will be turned down slowly until it is completely off. | | | | | | | |
| Shutdown asphalt pump. Ensure asphalt is not flowing between asphalt weigh hopper and asphalt storage tank. | | | | | | | |



Maintenance & Site Services
Maintenance Operating Instruction
Asphalt Batch Plant Operations
41-20-001.1: ASPHALT BATCH PLANT DAILY OPERATIONAL CHECKLIST

| | | | | | | | |
|--------------------------------------|--|--|--|--|--|--|--|
| CRAFT NAME: _____ Z#: _____ | | | | | | | |
| CRAFT SIGNATURE: _____ | | | | | | | |
| SUPERINTENDENT NAME: _____ Z#: _____ | | | | | | | |
| SUPERINTENDENT SIGNATURE: _____ | | | | | | | |

Comments:

Part 2- For any AR (Action required) in PART 1, describe below: action required, action taken, date, and time of action. Attach additional sheets if necessary. If more than one action is required, number each AR.

| |
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| |
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Logistics Division
 Maintenance Operating Instruction
Asphalt Batch Plant Operations
 41-20-001.3: ASPHALT BATCH PLANT PM INSPECTION & LUBRICATION CHECKLIST

| | | |
|--|----------------|-------------------------------|
| | PM DATE: _____ | NEXT SCHEDULED PM DATE: _____ |
|--|----------------|-------------------------------|

| | | | |
|-----------|-------------|------------------|-------------|
| TA- _____ | BLDG- _____ | EQUIP. ID: _____ | PM #: _____ |
|-----------|-------------|------------------|-------------|

Place a Checkmark under “S” if the condition is SATISFACTORY or “U” if the condition is UNSATISFACTORY. Note actions required or general remarks in “Comments” as applicable. Mark “N/A” under comments if not applicable. Advise the foreman or supervisor of problems involving imminent danger.

| ASPHALT BATCH PLANT PREVENTATIVE MAINTENANCE INSPECTION AND LUBRICATION | | | | |
|--|--|---|---|----------|
| STEP | ACTION / DESCRIPTION | S | U | Comments |
| 1.0 | PRE-MAINTENANCE INSTRUCTIONS | | | |
| 1.1 | Before beginning maintenance, follow applicable LO/TO procedures at the main control panel | | | |
| 2.0 | ASPHALT PLANT MAINTENANCE | | | |
| 2.1 | Perform preventative maintenance of the asphalt plant equipment semi-annually. | | | |
| 3.0 | LUBE/INSPECTION POINTS | | | |
| | FEEDER | | | |
| 3.1 | 8 Pillow Blocks | | | |
| 3.2 | 1 Gear Box (Check Oil) <i>Add if Necessary</i> | | | |
| 3.3 | 2 Wheel bearings | | | |
| 3.4 | Clear away stones and dust build up from any moving parts | | | |
| | CONVEYOR BELT | | | |
| 3.5 | 4 Pillow Blocks | | | |
| 3.6 | 1 Gear Box (Check Oil) <i>Add if Necessary</i> | | | |
| 3.7 | Clear away stones and dust build up from any moving parts | | | |
| | DRIER | | | |
| 3.8 | 12 Pillow Blocks | | | |
| 3.9 | 1 Gear Box (Check Oil) <i>Add if Necessary</i> | | | |
| 3.10 | Clear away stones and dust build up from any moving parts | | | |
| 3.11 | Inspect the drum roller drive chain for mechanical integrity. Replace or repair any broken parts | | | |
| 3.12 | Lube chain and idle gear | | | |
| | HOT ELEVATOR | | | |
| 3.13 | 2 Pillow Blocks | | | |
| 3.14 | 2 Flat Bearings | | | |
| 3.15 | 1 Gear Box (Check Oil) <i>Add if Necessary</i> | | | |
| 3.16 | Clear away stones and dust build up from any moving parts | | | |
| 3.17 | Inspect the elevator chain under the buckets for proper tension and mechanical integrity. Ensure no broken parts or damage exists. Adjust/replace if necessary | | | |
| 3.18 | Inspect elevator buckets for aggregate buildup and metal wear. Repair and/or clean parts if necessary. | | | |
| 3.19 | Inspect elevator bottom for excessive aggregate buildup. Remove and/or clean if evident. | | | |
| | SHAKER AND SCREENING PLANT | | | |
| 3.20 | 2 Bearing on Electric Motor | | | |
| 3.21 | 1 Gear Box (Check Oil) <i>Add if Necessary</i> | | | |
| 3.22 | Screen Cloth Tension | | | |
| 3.23 | Inspect even material feed and distribution into screen. | | | |
| 3.24 | Tighten Loose Bolts | | | |
| 3.25 | Drive Belt Tension | | | |
| 3.26 | Support Springs | | | |
| 3.27 | Clear away stones and dust build up from any moving parts | | | |



Maintenance & Site Services
 Maintenance Operating Instruction
Asphalt Batch Plant Operations
41-20-001.3: ASPHALT BATCH PLANT PM INSPECTION & LUBRICATION CHECKLIST

| 3.28 | Inside the screen, inspect the feed and discharge wear plates for excessive buildup and wear. Repair and/or clean as needed | | | |
|--|--|---|---|----------|
| ASPHALT BATCH PLANT PREVENTATIVE MAINTENANCE INSPECTION AND LUBRICATION | | | | |
| STEP | ACTION / DESCRIPTION | S | U | Comments |
| | PUG MILL | | | |
| 3.29 | 4 Pillow Blocks | | | |
| 3.30 | 1 Gear Box (Check Oil) <i>Add if Necessary</i> | | | |
| 3.31 | Clear away stones and dust build up from any moving parts | | | |
| 3.32 | Inside the mill, inspect the 2 paddle assemblies and wear plates under the paddles for excessive buildup and wear. Repair and/or clean as needed | | | |
| | BAG HOUSE | | | |
| 3.33 | 3 Flat Bearings | | | |
| 3.34 | 4 Gear Box Points (Check Oil) <i>Add if Necessary</i> | | | |
| | EXHAUST FAN | | | |
| 3.35 | 2 Pillow Blocks | | | |
| 3.36 | 2 Fittings on Electric Motor | | | |
| | DAMPER CONTROL | | | |
| 3.37 | 4 Flat Bearings | | | |
| | AIR COMPRESSOR | | | |
| 3.38 | Clean Air Filter | | | |
| 3.39 | Check Oil Level <i>Add if Necessary</i> | | | |
| | DUST RETURN SCREW | | | |
| 3.40 | 1 Gear Box (Check Oil) <i>Add if Necessary</i> | | | |
| | HOT ASPHALT PUMP | | | |
| 3.41 | 2 Fittings on Electric Motor | | | |
| | HOT OIL PUMP AND ELECTRIC MOTOR | | | |
| 3.42 | 2 Fittings on Electric Motor | | | |
| | PROPANE PUMP | | | |
| 3.43 | 2 Fittings | | | |
| 4.0 | POST-MAINTENANCE INSTRUCTIONS | | | |
| 4.1 | After completing maintenance, follow applicable LO/TO procedures at the main control panel | | | |

REMARKS / ACTION REQUIRED:

VERIFICATION

| | | |
|---------------------------|----------|------|
| CRAFT NAME: | Z-NUMBER | DATE |
| CRAFT SIGNATURE: | | |
| SUPERINTENDENT NAME: | Z-NUMBER | DATE |
| SUPERINTENDENT SIGNATURE: | | |



Logistics Division
 Maintenance Operating Instruction
Asphalt Batch Plant Operations
41-20-001.4: ASPHALT BATCH PLANT CALIBRATION COMPLIANCE

| | |
|--------------------------|-------------------------------|
| CALIBRATION DATE: | NEXT CALIBRATION DATE: |
|--------------------------|-------------------------------|

Place a Checkmark under “S” if the condition is SATISFACTORY or “U” if the condition is UNSATISFACTORY. Note actions required or general remarks in “Comments” as applicable. Mark “N/A” under comments if not applicable. Advise the foreman or supervisor of problems involving imminent danger.

CALIBRATE PLANT SCALES

| | | | |
|-----------|-------------|------------------|-------------|
| TA- _____ | BLDG- _____ | EQUIP. ID: _____ | PM #: _____ |
|-----------|-------------|------------------|-------------|

| ACTION | S | U | Comments |
|--|---|---|----------|
| Calibrate load scales for batched asphalt produced. Calibrate and adjust weight indicator to accuracy of 0.5% of the maximum allowable load in accordance with the Federal Motor Carrier Safety Administration (FMCSA) publication. | | | |

CALIBRATE LOAD SENSORS

| | | | |
|-----------|-------------|------------------|-------------|
| TA- _____ | BLDG- _____ | EQUIP. ID: _____ | PM #: _____ |
|-----------|-------------|------------------|-------------|

| ACTION | S | U | Comments |
|--|---|---|----------|
| Calibrate load sensors for aggregate using certified weights (<i>i.e.</i> , 1000 lb weight). Calibrate and adjust weight indicator (<i>tolerance</i> +/- 3%). | | | |

CALIBRATE ASPHALT FLOW METER

| | | | |
|-----------|-------------|------------------|-------------|
| TA- _____ | BLDG- _____ | EQUIP. ID: _____ | PM #: _____ |
|-----------|-------------|------------------|-------------|

| ACTION | S | U | Comments |
|---|---|---|----------|
| Obtain a <i>calibrated</i> 5 gallon container | | | |
| Set up output of pipe. Turn on pump; measure pipe output (5 gal) and adjust as necessary till control panel output and pipe output are reading the same. Repeat as necessary until results are within tolerances (+/- 1%) | | | |

CALIBRATE ASPHALT THERMOMETERS

| | | | |
|-----------|-------------|------------------|-------------|
| TA- _____ | BLDG- _____ | EQUIP. ID: _____ | PM #: _____ |
|-----------|-------------|------------------|-------------|

| ACTION | S | U | Comments |
|--|---|---|----------|
| Calibrate thermometer in asphalt feed line, near the charging valve at the mixer unit. Thermometer shall be approved with a range from 100°F to 400°F calibrated with control unit to allowable tolerances. | | | |
| Calibrate thermometer near discharge chute to automatically register the temperature of heated aggregates or mix, as necessary. Thermometer shall be calibrated with control unit to allowable tolerances. | | | |

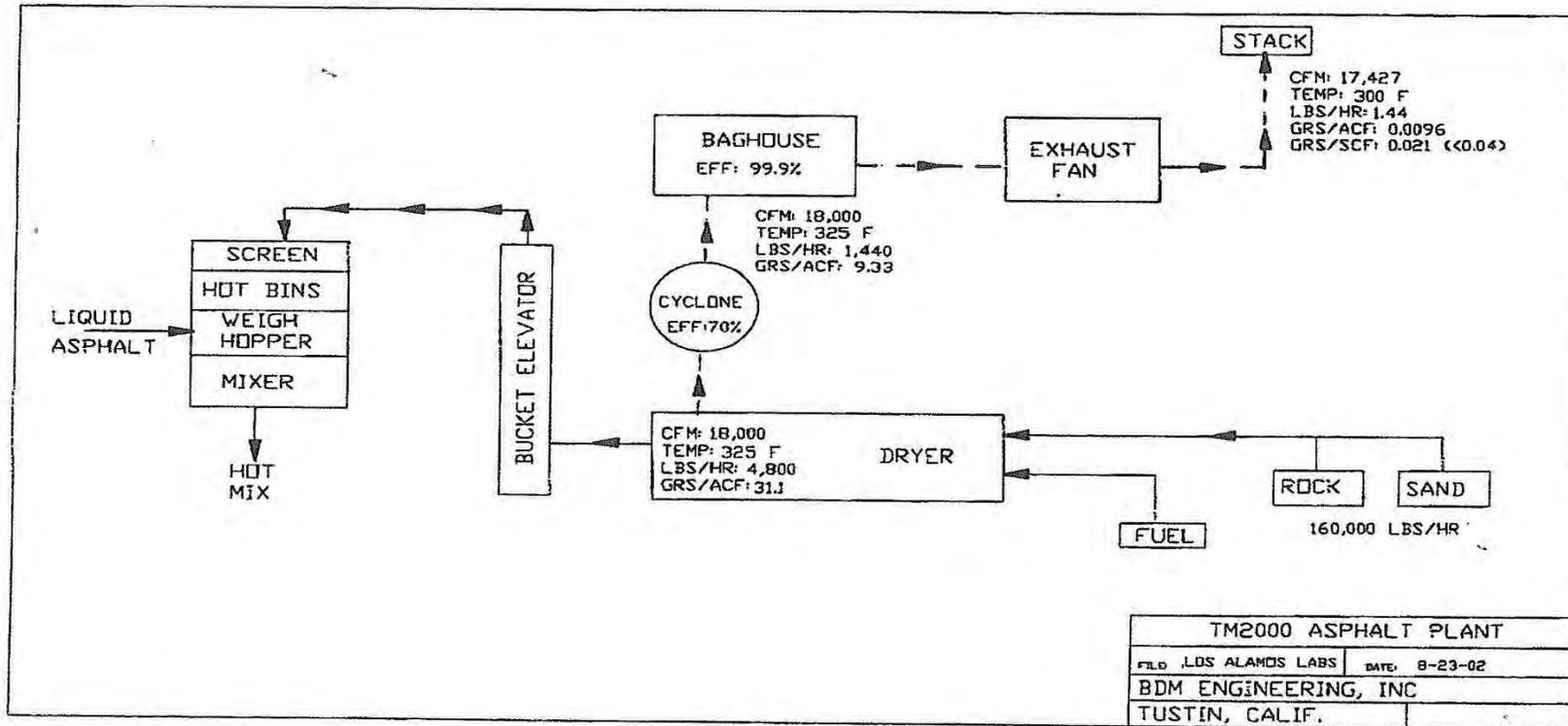
VERIFICATION

| | | |
|------------------|----------|------|
| CRAFT NAME: | Z-NUMBER | DATE |
| CRAFT SIGNATURE: | | |

| | | |
|----------------------|----------|------|
| SUPERINTENDENT NAME: | Z-NUMBER | DATE |
|----------------------|----------|------|

| | | |
|---------------------------|--|--|
| SUPERINTENDENT SIGNATURE: | | |
|---------------------------|--|--|

ATTACHMENT 5: ASPHALT BATCH PLANT FLOW DIAGRAM



| | | |
|----------------------------|------------------------------|---|
| SPCC-PLN-60-03 | Revision: 0 |  |
| Effective Date: 10/12/2020 | Next Review Date: 10/12/2025 | |

Los Alamos National Laboratory

Spill Prevention Control and Countermeasures Plan

LOG-HERG REFUELING TRUCKS & TA-60-1 HEAVY EQUIPMENT SHOP

Hazard Grading: Low Moderate High/Complex
Usage Level: Reference UET Mixed: UET Sections: _____
Status: New Major Revision Minor Revision
 Review w/No Changes Other: _____
Safety Basis: N/A USQ USI Number: _____

Document Author/Subject Matter Expert:

| | | | |
|---------------------|----------------------|--|----------------|
| Name: William Foley | Organization: EPC-CP | Signature: WILLIAM FOLEY (Affiliate) <small>Digitally signed by WILLIAM FOLEY (Affiliate) Date: 2020.10.13 17:05:41 -06'00'</small> | Date: 10-13-20 |
|---------------------|----------------------|--|----------------|

Derivative Classifier: Unclassified or _____

| | | | |
|--------------------|----------------------|------------|-------|
| Name: Steve Wolfel | Organization: EPC-CP | Signature: | Date: |
|--------------------|----------------------|------------|-------|

Approval Signatures:

| | | | |
|------------------------------------|----------------------|--|----------------|
| EPC-CP Reviewer: Jacob Knight | Organization: EPC-CP | Signature: JACOB KNIGHT (Affiliate) <small>Digitally signed by JACOB KNIGHT (Affiliate) Date: 2020.10.15 10:24:42 -06'00'</small> | Date: 10-15-20 |
| EPC-CP Program Lead: Steve Pearson | Organization: EPC-CP | Signature: STEVEN PEARSON (Affiliate) <small>Digitally signed by STEVEN PEARSON (Affiliate) Date: 2020.10.16 11:55:01 -06'00'</small> | Date: 10-15-20 |

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To document a required read, Login to [UTrain](#), and go to the Advanced Search.

General Requirements Cross Reference

| Final SPCC Rule | Description of Section | SPCC Section |
|---|---|---|
| Subpart A. Applicability, Definitions, and General Requirements for All Facilities and All Types of Oils: 40 CFR 112.1 – 7 | | |
| § 112.7 | General requirements for SPCC Plans for all facilities and all oil types. | General Requirements Cross Reference, certification and management approval pages |
| §112.7(a.1, 2) | Discussion of facility's conformance with rule requirements; deviations from Plan requirements. | Section 1.1. Conformance |
| §112.7(a.3.i, iii) | Facility characteristics that must be described in the Plan; facility diagram. | Section 2. Facility Information, Appendix B |
| §112.7(a.3.ii, iv, v, vi; a.4; a.5) | Spill prevention, response and reporting information in the Plan; emergency procedures. | Section 5. Spill Prevention and Control, Section 2.3.2 Refuelers and Oil Transfer Equipment/Operations, Appendix E |
| § 112.7(b) | Fault analysis. | Section 4. Potential Spill Volumes and Rates |
| § 112.7(c) | Secondary containment/diversionary structures. | Section 2. Facility Information, Appendix C |
| § 112.7(d) | Contingency planning. | N/A |
| § 112.7(e) | Inspections, tests, and records. | Section 6. Inspections, Section 7. Recordkeeping, Appendix D |
| § 112.7(f) | Employee training and discharge prevention procedures. | Section 9. Training, Appendix G |
| § 112.7(g) | Security (excluding oil production facilities). | Section 5.3. Security |
| § 112.7(h) | Loading/unloading (excluding offshore facilities). | Section 2.3.2. Refuelers and Oil Transfer Equipment/Operations |
| § 112.7(i) | Brittle fracture evaluation requirements. | N/A |
| § 112.7(j) | Conformance with State requirements. | Section 1.1. Conformance |
| Subpart B. Requirements for Petroleum Oils and Non-Petroleum Oils, Except Animal Fats and Oils and Greases, and Fish and Marine Mammal Oils; and Vegetable Oils (including Oils from Seeds, Nuts, Fruits, and Kernels): 40 CFR 112.8 – 11 | | |
| § 112.8 | Requirements for onshore facilities (excluding production facilities). | Throughout Plan |
| § 112.8(a) | General and specific requirements. | Throughout Plan |
| § 112.8(b) | Facility drainage. | Section 2.2. Site Assessment/Location, Section 2.3. Description |
| § 112.8(c.1) | Bulk storage containers - compatibility. | Section 2.3.1. Tanks |
| § 112.8(c.2, 3) | Bulk storage containers – containment, drainage. | Section 1.1. Conformance, Section 2.3. Description |
| § 112.8(c.6) | Bulk storage containers – testing. | Section 2.3.1. Tanks, Section 6 Inspections |
| § 112.8(c.4, 5, 7) | Bulk storage containers – buried tanks, leakage. | N/A |
| § 112.8(c. 9) | Bulk storage containers – effluent treatment. | Section 2.3.2 Refuelers and Oil Transfer Equipment/Operations, Section 6 Inspections |
| § 112.8(c.8) | Bulk storage containers – installation. | Section 1.1 Conformance, Section 2.3. Description |
| § 112.8(c.10, 11) | Bulk storage containers – discharges, discharge prevention. | Section 1.1. Conformance, Section 2.3. Description, Section 5. Spill Prevention and Control, Section 6. Inspections |
| § 112.8(d.1) | Facility transfer operations, pumping, and facility process – buried piping. | N/A |
| § 112.8(d.2) | Facility transfer operations, pumping, and facility process - connections. | Section 1.1. Conformance, Section 2.3.2. Oil |

| | | |
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| LOG-HERG Refueling Trucks & TA-60-1 Heavy Equipment Shop | No: SPCC-PLN-60-03 | Page 3 of 75 |
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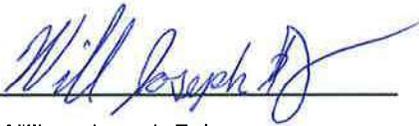
| | | |
|---|---|---|
| | | Transfer Equipment/Operations |
| § 112.8(d.3) | Facility transfer operations, pumping, and facility process - supports. | N/A |
| § 112.8(d.4) | Facility transfer operations, pumping, and facility process - inspections. | Section 6. Inspections |
| § 112.8(d.5) | Facility transfer operations, pumping, and facility process - warnings | Section 2.3. Description, Section 5.3. Security |
| § 112.9, § 112.10, § 112.11 | Requirements for: (1) onshore production facilities, oil drilling and workover facilities; and (2) offshore oil drilling, production, or workover facilities. | N/A |
| Subpart C. Requirements for Animal Fats and Oils and Greases, and Fish and Marine Mammal Oils; and for Vegetable Oils, including Oils from Seeds, Nuts, Fruits, and Kernels: 40 CFR 112.12 – 15 | | |
| § 112.12, § 112.13, § 112.14, § 112.15 | All portions | N/A |

| | | |
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CERTIFICATION

This Plan was developed pursuant to provisions of the federal regulation for oil pollution prevention, 40 CFR Part 112. Its purpose is to provide spill prevention and response measures to prevent the pollution of navigable waters from oil related spills.

In accordance with 40 CFR Part 112.3 (d), this Plan has been reviewed and certified by a Registered Professional Engineer (PE). By means of this certification, the engineer, having examined the facility or having an agent examine the facility, and being familiar with the provisions of this regulation, attests that the Plan has been prepared in accordance with good engineering practice, including consideration of applicable industry standards, and with the requirements of Part 112. Procedures for required inspections and testing have been established and this Plan is adequate for the facility.

Certified by: 

William Joseph Foley
Registered Professional Engineer
New Mexico License No. 12703

Date: 10/13/20



10/13/20

| | | |
|---|--------------------|----------------------------|
| LOG-HERG Refueling Trucks & TA-60-1 Heavy Equipment Shop | No: SPCC-PLN-60-03 | Page 5 of 75 |
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MANAGEMENT APPROVAL

This Plan has the full approval of management at a level with authority to commit the necessary resources. The owner/operator will fully implement this Plan in accordance with the requirements of 40 CFR Part 112.

Facility Owner/Operator Approval:

Approved by: _____

Date: _____

Brian Watkins
Logistics Division Leader
Los Alamos National Laboratory

| | | |
|---|--------------------|----------------------------|
| LOG-HERG Refueling Trucks & TA-60-1 Heavy Equipment Shop | No: SPCC-PLN-60-03 | Page 7 of 75 |
| | Revision: 0 | Effective Date: 10/12/2020 |

REVISION HISTORY

| Document Number and Revision <i>[Include revision number, beginning with Revision 0]</i> | Effective Date <i>[Document Control Coordinator inserts effective date]</i> | Professional Engineer Certification Required | Description of Changes <i>[List specific changes made since the previous revision]</i> |
|--|---|---|--|
| SPCC – MSS-HERG Refueling Trucks, Rev. 0 | March 2010 | Yes (see file) | Initial Issue |
| SPCC – MSS-HERG Refueling Trucks, Rev. 1 | April 2015 | Yes (see file) | Plan Renewal |
| SPCC-PLAN-60-03, Rev 0 | August 2020 | Yes (see Appendix B) | Document reformat/numbering, 5-year Review/Update, Remove TA-54 refueler/four 125-gallon storage tank/one-240-gallon storage tank/four 55-gallon drums, Add seven 500-gallon storage tanks |

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1.0 INTRODUCTION

This Spill Prevention Control and Countermeasure (SPCC) Plan is a requirement of the Environmental Protection Agency (EPA) Oil Pollution Prevention Regulation in accordance with Title 40 of the Code of Federal Regulation Part 112 (40 CFR 112). This Plan has been revised to comply with requirements of the regulations published in August 2002 and all Amendments. 40 CFR 112.1(d)(2)(ii) requires that facilities that have an aggregate aboveground storage capacity of 1,320 gallons or greater of oil, including all containers 55 gallons or greater, maintain and implement a SPCC Plan. The intent of the SPCC Plan is to prevent oil related spills from polluting natural resources belonging to the United States (U.S.) through the implementation of adequate prevention and response measures. With regard to Los Alamos National Laboratory (LANL or Laboratory), natural resources include drainages to and/or navigable waters of the State of New Mexico (NM) and/or U.S. which include all canyons, arroyos, streams, and rivers within and surrounding LANL Technical Areas (TAs).

Due to LANL's diverse activities and changing conditions, a single Plan incorporating all LANL facilities subject to SPCC requirements is impractical. SPCC locations are addressed according to specific Facility boundaries within LANL as determined by management and funding organization. The Facility Operations Director (FOD) or the facility tenant with approval from LANL Environmental Protection and Compliance Division's Compliance Programs Group (EPC-CP), develops, implements, and maintains SPCC Plans for the specific SPCC location(s) within their stewardship.

This SPCC Plan addresses the TA-60-1 Heavy Equipment Shop (HES) and refueling trucks (Refuelers) operated by the Logistics Heavy Equipment, Roads & Grounds (LOG-HERG) division at LANL. Eight 55-gallon containers for new oil and fuel waste storage inside TA-60-1 and seven 500-gallon above ground double walled storage tanks for new/waste oils are included in this SPCC Plan revision compared with the last SPCC Plan revision. Four of the new 500-gallon above ground double walled storage tanks for new and waste oil will be brought into the HES to replace four 55-gallon containers, three 125-gallon tanks, and one 240-gallon tank during the effective period of this SPCC Plan. When the new tanks are brought into service the old tanks will be taken out of service and no longer used for oil storage. In addition, the TA-54 refueling truck included in the previous SPCC Plan is being removed. The tank has been removed from the truck and salvaged while the truck has been re-purposed as a work-truck with no refueling capacity. These changes result in a net increase to facility oil storage of 1,820 gallons compared to the previous SPCC Plan revision. Additional details related to these seven tanks are provided below in Section 2.3.1.

1.1 Conformance

This SPCC Plan and facility conform to the requirements of 40 CFR Part 112 to the fullest extent possible. The facility has appropriate spill prevention, reporting, and response measures, secondary containment is appropriate for the materials stored, and there is adequate security. Procedures for inspections, testing, loading and unloading, record keeping, spill response, and training have been developed. Work at this facility is performed using LANL's five step Integrated Safety Management approach, which evaluates a task and identifies potential hazards such as a spill event to achieve effective spill response training for employees. Deviations from regulatory requirements include:

| | | |
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| LOG-HERG Refueling Trucks & TA-60-1 Heavy Equipment Shop | No: SPCC-PLN-60-03 | Page 11 of 75 |
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- LOG-HERG may provide refueling services to construction vehicles and equipment located at construction sites that are regulated by 40 CFR 112 or 40 CFR 122. Such sites regulated by a SPCC Plan or Construction Storm Water Pollution Prevention Plan (SWPPP) are considered approved refueling sites based on regulatory requirements and will not be updated in this Plan. SPCC and SWPPP requirements include proper best management practices for ensuring that oil pollution prevention measures are administered during refueling activities. Facility maps and site specific pollution prevention requirements are available at the various SPCC and SWPPP regulated construction sites

Current and future activities at the facility to ensure compliance with regulatory requirements include:

- Train refueling personnel to respond to an incidental spill on an on-going basis.
- Continue utilization of the Remote Refueling Checklist form found in Appendix D.
- Train refueling personnel to identify adjacent storm drains and ditches and to choose and install temporary best management practices (BMPs) if needed.
- Perform refueling only at designated locations. If refueling must occur at an undesignated location, the location will be inspected for adjacent storm drains and ditches. Temporary BMPs will be installed if required.
- If temporary BMPs are specified for a location, fueling will not occur unless the temporary BMPs have been installed by the facility or refueler team.
- Refueling will not occur during precipitation events in areas exposed to storm water.
- Storage tanks will not be filled over 90% unless the tank is equipped with a 95% overflow prevention valve. The facility should determine the current level of fuel in the tank and request the specific amount to be delivered to not overflow their tank. It is strongly encouraged that all storage tanks be equipped with a level gage visible to refuelers. Vehicles can be filled until the dispensing nozzle shutoff is activated.
- Seven 500-gallon double walled above ground storage tanks will be brought into the HES. Three of these tanks will each store up to 500 gallons each of motor oil. Two of these tanks will each store up to 500 gallons of hydraulic oil. Two tanks will store up to 500 gallons of waste oil. Since these are double walled, the outer shell will provide secondary containment for each tank. Additional details related to these tanks are provided in Section 2.3.1 of this SPCC Plan.
- Upgrade current oil storage by removing three 125-gallon, one 240-gallon, and four 55-gallon oil storage containers from service concurrent with placing the 500-gallon above ground storage tanks into service as previously described.

In addition to Federal regulations, this Plan complies with the New Mexico Environment Department (NMED) regulations for Ground and Surface Water Protection found in the New Mexico Administrative Code (NMAC) 20.6.2. State water quality standards are considered when

| | | |
|---|--------------------|----------------------------|
| LOG-HERG Refueling Trucks & TA-60-1 Heavy Equipment Shop | No: SPCC-PLN-60-03 | Page 12 of 75 |
| | Revision: 0 | Effective Date: 10/12/2020 |

determining procedures for secondary containment drainage. These tanks do not fall under the NMED Petroleum Storage Tank Regulations (NMAC 20.5.1-17).

The Certification of the Applicability of Substantial Harm Criteria is included in Appendix A. A self-selection process outlined in Section 112.3 of 40 CFR 112 was applied and it was determined that the facility does not fall under the “substantial harm” category. Therefore, the facility is not required to prepare and submit a Facility Response Plan.

1.2 Scope

The Logistics (LOG) Division within the Facilities & Operations Directorate (ALDFO) is accountable for SPCC requirements applicable to their facility and has responsibility for developing, implementing, enforcing, and maintaining the SPCC Plan requirements. The Division Leader may also delegate authority and responsibility to other members of LOG Division to ensure that the record keeping, Plan amendments, training, spill response and reporting, and inspections are properly completed and submitted to them for approval. The complete SPCC Plan with original signatures of the Division Leader is located in TA-60-1 HES or during updates will be located at the Deployed Environmental Professional (DEP) office (TA-3-1437).

| Topic Area | Specific Item | Responsible Entity | |
|----------------------|---|--------------------|-----|
| | | EPC-CP | LOG |
| <i>General</i> | <i>Prepare SPCC to meet regulatory requirements</i> | X | X |
| | <i>Approve SPCC</i> | X | |
| | <i>Implement SPCC</i> | | X |
| | <i>Approve physical changes needed to implement SPCC</i> | X | |
| | <i>Provide oversight</i> | X | |
| <i>Inspections</i> | <i>Leak and spill cleanup and disposal, provide spill information to EPC-CP, update spill log in Plan</i> | | X |
| | <i>Spill reporting to state and federal regulators</i> | X | X |
| | <i>Provide qualified personnel to perform and write monthly SPCC walk around inspections</i> | | X |
| | <i>Ensure annual physical inspections of tanks are performed.</i> | | X |
| | <i>Provide qualified personnel to perform and write annual SPCC inspections</i> | X | |
| <i>Recordkeeping</i> | <i>Implement corrective actions noted in inspections</i> | | X |
| | <i>Maintain inspections in onsite SPCC</i> | | X |
| | <i>Maintain onsite training records for periodic briefings or Lessons Learned</i> | | X |
| | <i>Update spill tracking form</i> | | X |
| | <i>Track discharges/spills (planned and unplanned)</i> | X | X |

| Table 1. SPCC Responsibilities | | | |
|---------------------------------------|---|---------------------------|------------|
| <i>Topic Area</i> | <i>Specific Item</i> | <i>Responsible Entity</i> | |
| | | <i>EPC-CP</i> | <i>LOG</i> |
| | <i>Review SPCC every five years</i> | X | X |
| <i>Training</i> | <i>Provide annual training that meets SPCC regulatory requirements</i> | X | |
| | <i>Provide site-specific SPCC Training (Facility Owner/Operator)</i> | | X |
| | <i>Ensure all oil handling personnel and designated persons accountable for discharge prevention attend annual training</i> | X | X |
| <i>Plan Amendment</i> | <i>Provide information on changes to design, construction, operation or maintenance</i> | | X |
| | <i>Amend Plan when spill or other change in facility occurs</i> | | X |
| | <i>Approve physical changes needed and plan amendments to SPCC, if engineer certification is required</i> | X | |
| | <i>Implement changes to plan within 6 months of change to facility</i> | | X |

1.3 Plan Amendment

This SPCC Plan will be amended whenever there is a change in facility design, construction, operation or maintenance that materially affects the facility's potential for discharge of oil into or upon LANL natural resources including canyons, arroyos, streams, and rivers as described previously. The Plan will also be amended as necessary if a spill causes a change in design, construction, operation, or maintenance. Such amendments shall be fully implemented as soon as possible, but not later than six months after such change occurs. Amendments to the Plan will be recorded in the Amendment Log, Appendix B.

In addition, in accordance with 40 CFR 112.5(b), a complete review and evaluation of this SPCC Plan will be conducted at least once every five years by the operating group(s) and/or Facility Operations Director, and by EPC-CP. As a result of this review and evaluation, the SPCC Plan will be amended within six months of the review to include more effective spill prevention and control technology, if such technology will significantly reduce the likelihood of a spill event from the facility, and if such technology has been field proven at the time of review.

The last item identified as underway in Section 1.1 Conformance related to the seven new 500-gallon tanks (5 for new oil and 2 for waste oil) will need to be verified by a Professional Engineer prior to placing them into service. If all information is consistent with the information contained in this SPCC Plan related to these tanks this change will not require certification by a Professional Engineer (PE). If different tanks, even equivalent tanks, or other information requires modification related to these tanks, their locations, or contingency information differs the SPCC Plan will require certification by a PE.

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Changes to the contact lists and the addition of records to the Plan do not require certification by a PE. All amendments that address technical changes that may change the facility’s ability to discharge oil will be certified by a PE.

2.0 FACILITY INFORMATION

2.1 Name, Address, Owner, Contacts

The TA-60-1 HES, LOG-HERG Refuelers, and associated equipment is owned by the LANL LOG Division and operated by the LOG-HERG Group. The owner and operator for the facility are:

Facility Owner/Operator

LOG-DO Division
 Heavy Equipment, Roads & Grounds (LOG-HERG) Group
 Triad National Security LLC (Triad)
 Los Alamos National Laboratory
 Los Alamos, NM 87545

Contacts

| Name | Phone | Title |
|------------------|----------|--|
| Brian L. Watkins | 667-0562 | LOG Division Leader |
| Larry Velasquez | 665-2644 | LOG-HERG Group Leader |
| Chris Sena | 667-5113 | LOG-HERG Heavy Equipment Shop Superintendent |
| Dana Parrett | 664-0883 | LOG-HERG Superintendent |
| Bob Lechel | 665-6912 | DEP Team Leader |
| Jacob L. Knight | 665-5880 | EPC-CP DEP |

2.2 Site Assessment/Location

The following provides site assessment/location for both the HES and the refuelers.

- The HES sits on the Sigma Mesa fully within the Laboratory boundary and within the Sandia watershed. Drainage from the facility flows in a general easterly direction prior to leaving the mesa top and entering Sandia Canyon via a surface drainage feature on the mesa top via either a National Pollutant Discharge Elimination System (NPDES) Multi-Sector General Permit (MSGP) discharge location or sheet flow via surface flow within the facility. The primary Sandia Canyon drainage is located over 500 feet from the NPDES MSGP discharge location. The primary Sandia Canyon drainage eventually drains into the Rio Grande.
- All refuelers are typically parked/stored in the southeast “upper lot” area of TA-60-1 (when not being used in the field). The trucks pick up fuel offsite. The truck parking/storage area is located approximately 1000 feet from the primary Sandia

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Canyon drainage. Drainage from this area flows in a general easterly direction prior to leaving the mesa top via a surface drainage feature on the mesa top via a storm drain fitted with an insert that filters for oil via surface flow within the facility.

2.3 Description

LOG is a multidisciplinary organization whose primary mission is to provide the Laboratory with safe, reliable, and efficient infrastructure, maintenance and utilities support. LOG customers reside within 43 square miles involving approximately 1,400 building facilities. The LOG-HERG group provides heavy equipment (including refueling), and roads and grounds services throughout the Laboratory. The

TA-60-1 HES provides vehicle maintenance and repair services for LANL’s heavy equipment and other General Services Administration (GSA) vehicles. Refuelers are used to refuel generators, fuel storage tanks, and vehicles around the Laboratory. A list of designated refuelers and refueling locations are included in Section 2.3.2, and in addition, some refueling may occur in undesignated or remote locations for emergency vehicles and portable emergency generators.

2.3.1 Tanks

Tanks containing oil covered by this SPCC within the TA-60-1 HES are listed below. It should be noted the TA-60-1 HES is also covered under a separate MSGP SWPPP.

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525-gallon Plastic Used Oil Tank

There is a 525-gallon plastic used oil tank located in the northeast section of the building outside of the lower east bays, Photograph 1. The tank is located within a fiberglass containment unit that collects incidental spills for cleanup when oil is poured into the manway top. The secondary containment has a volume of 724 gallons (before displacement by tank itself). Drainage from this location flows to the oil/water separator just down gradient of the tank. The oil water separator discharges to the Laboratory sanitary waste water collection system. In addition, the unit is covered by a metal canopy so it will not be exposed to storm water.



Photograph 1: 525-Gallon Used Oil Tank Located In Northeast Section of TA-60-1

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125-gallon Plastic Used Oil Tank

An enclosed 125-gallon plastic used oil tank is located in the southeast section of the building and is used by the shops in the upper south bays, Photograph 2. The oil tank sits on a “Save-A-Spill” containment pad with an approximate volume of 90 gallons. Drainage from this locations flows to the concrete surface in the yard and would be contained by shop personnel with spill kit materials. This tank will be removed from service and replaced with a new 500-gallon STI UL 142 rating double wall tank. Information related to the new tank is provided at the bottom of Section 2.3.1 in this SPCC Plan.



Photograph 2: 125-Gallon Used Oil Tank Located In Southeast Section of TA-60-1

Poly-storage Containment Unit

There is also an enclosed, three-section poly-storage containment unit on the east side of the building just south of the lower bays, Photograph 3. This storage is used for drums containing hydraulic fluid, diesel exhaust fluid, antifreeze and washer fluid. The concrete secondary containment unit these units sit inside of is equipped with a locking drainage valve and has a volume of 120 gallons. Each enclosed section on a spill pallet has a secondary containment volume of 66 gallons. Drainage from this location flows to a trench drain and then to oil/water separator which discharges to the sanitary wastewater collection system.



Photograph 3: Poly-storage Containment Unit Located On East Side of TA-60-1

Oil Storage Within Concrete Secondary Containment

There are several drums with oil and other petroleum products stored outside at the southeast corner of the building. Photograph 4. The drums are kept stored within a concrete-bermed secondary containment unit with a locking drainage valve. The secondary containment has a volume of approximately 1,150 gallons. Within the last 5 years there have been only 3 or less 55-gallon drums stored in this containment and additional drum storage is not expected. If additional oil drums are stored a maximum of 12 shall be stored within the secondary containment. Drainage from this location flows to the concrete surface just outside of the bay door where it could be contained by shop personnel. This area drains to the NPDES MSGP outfall which is fitted with a PetroBarrier™ prior to entering an existing conveyance to Sandia Canyon.



Photograph 4: Various Oil Storage on Southeast Side of TA-60-1 Within Concrete

Bulk Oil Drums Within TA-60-1

There is one 55-gallon drum for unleaded fuel waste and one 55-gallon drum for diesel fuel waste in both the upper and lower shops for a total of four total fuel waste drums in the building. There are two 55-gallon drums with new hydraulic oil and two 55-gallon drums with motor oil in the lower shop. There is also a bulk 240-gallon motor oil tank in the upper shop, and three bulk 125-gallon tanks for motor and hydraulic oil in the lower shop that are used for servicing vehicles with new motor oil and hydraulic fluid, Photographs 5 and 6. Oil storage at the facility will be upgraded by replacing the 240-gallon, 125-gallon tanks, and all new motor oil and hydraulic oil drums with three 500-gallon tanks described in later in Section 2.3.1 of this SPCC Plan. Drainage from the locations of oil storage tanks is to existing floor drains throughout the building. These floor drains connect to the oil/water separator for the facility. The oil/water separator discharges to the sanitary wastewater collection system. Any oil accumulation (mainly from vehicle washing) is pumped and removed every 3 weeks along with all other stored waste oil. Bulk oil and drums sit on spill pallets capable of containing catastrophic releases.



Photograph 5: 240-gallon Oil Storage Tank in TA-60-1 Upper Shop



Photograph 6: Three 120-gallon Oil Storage Tank in TA-60-1 Lower Shop

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Oil Filter Crushing Operations

Oil filter crushing operations take place within the building at the lower northeast bay and upper southeast bay, Photograph 7. As filters are crushed any oil released is contained in 5 gallon buckets and transferred to the nearest used oil tank or drum. The crushed filters are placed into a drum for recycle. Drainage from oil filter crushing operations is to existing floor drains throughout the building. These floor drains connect to the oil/water separator for the facility. The oil/water separator discharges to the sanitary wastewater collection system.



Photograph 7: Oil Filter Crushing Operations in TA-60-1

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500-Gallon Above Ground Oil Storage Tanks

Seven 500-gallon double walled above ground storage tanks (Photographs 8 and 9) will be used in the HES. Photograph 8 shows the dispensing tanks for new product. The waste oil tanks are identical except they are not fitted with dispensing equipment. Details related to these seven tanks are as follows:

- These tanks are compatible with the contents to be stored:
 - motor oil (three tanks);
 - hydraulic oil (two tanks);
 - waste oil (two tanks).
- Tank details:
 - Double walled outer shell on each tank provide sufficient volume to contain the entire contents of each tank.
 - Listed by Southwest Research Institute (SWRI) as built in accordance with Underwriters Laboratories (UL) 142 rating (Photograph 9).
 - Each tank has a lockable fill cap with vent, a level gage
 - Dimensions: 46-in wide, 46-in tall, and 60-in long

The locations of these tanks are as follows:

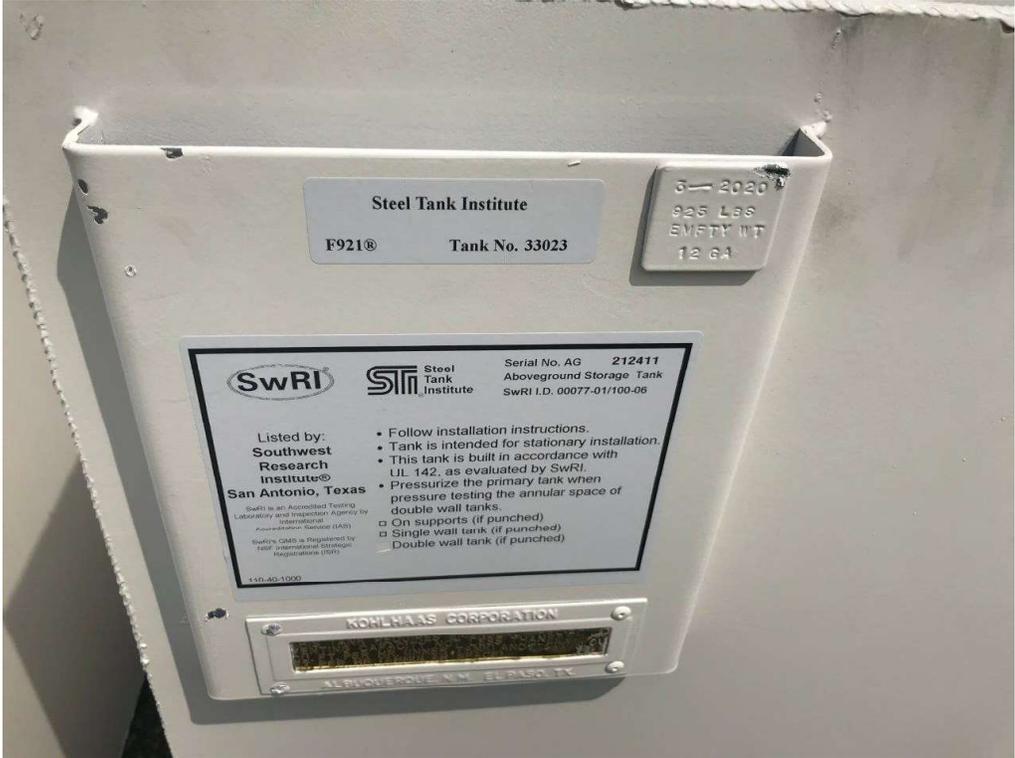
- One 500-gallon waste oil tank located adjacent to southeast section of building where existing 125-gallon waste oil tank (Photograph 2) will be removed.
- One 500-gallon motor oil tank in upper shop where existing 240-gallon motor oil tank (Photograph 5) will be removed.
- One 500-gallon motor oil (Photograph 6) and one 500-gallon hydraulic oil tank in lower shop where two existing 120-gallon motor oil and one existing 120-gallon hydraulic oil tank will be removed in addition to four 55-gallon containers.
- Within the outside storage shed located east of the building, one 500-gallon motor oil, one 500-gallon hydraulic oil, and one 500-gallon waste oil tank will be installed.

There will be a net increase in oil storage of 2,320 gallons as a result of removing the four stationary tanks and four 55-gallon containers within the building as described above.

Drainage from the four tanks being placed within TA-60-1 is to existing floor drains throughout the building. These floor drains connect to the oil/water separator for the facility. The oil/water separator discharges to the sanitary wastewater collection system. Drainage from the three tanks being placed in the outside storage sheds is to the east toward the existing NPDES MSGP outfall. This outfall discharges to an existing conveyance into Sandia Canyon as described in Section 2.2 of this SPCC Plan. A Facility Diagram showing the location of these tanks is provided in Appendix C.



Photograph 8: 500-Gallon Oil Tanks for Hydraulic Oil and Motor Oil Storage At TA-60-1



Photograph 9: 500-Gallon Oil Tanks Manufacturer Information for Hydraulic Oil, and Motor Oil Storage At TA-60-1

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2.3.2 Refuelers and Oil Transfer Equipment/Operations

2.3.2.1 Refuelers

The SPCC amendments streamline requirements for mobile refuelers. Mobile refuelers are exempted from the sized secondary containment requirements. However, the general secondary containment requirements still apply. General secondary containment addresses the most likely discharge from the container and from oil transfers into and from the mobile refueler. General secondary requirements do not prescribe a size for a secondary containment structure but require that the containment system prevent the spilled oil from escaping the system prior to clean up occurring and that appropriate containment and/or diversionary structures or equipment to prevent a discharge to navigable waters or adjoining shorelines. Usage of the Remote Refueling Checklist found in Appendix D will identify the type of general secondary containment to be provided during refueling operations and to ensure that it is properly implemented.

Refuelers pick up fuel offsite. The refuelers parking/storage area is located in the southeast “upper lot” are of TA-60-1 (when not being used in the field). Currently the area drains to a storm drain insert (Photograph 10) that filters for oil. Oil absorbing PetroBarriers™ units (Appendix H) have been installed in the storm drain inlets at the southeast corner of the paved lot. The PetroBarriers™ are designed to allow to water to flow through while capturing small amounts of oil (oil sheens) from the water. They are also designed to completely stop the flow of all liquid if a release of oil or fuel were to flow into the storm drain. The following refuelers are utilized under this SPCC Plan.

All of the refuelers are in compliance with Department of Transportation (DOT) standards and maintain current certifications. The tank truck fuel levels are checked by sticking the tanks once a week, the hoses are equipped with meters to track the amount dispensed. Each truck is equipped with a spill kit. The PetroBarriers™ specification sheet can be found in Appendix H of this SPCC Plan.



Photograph 10: TA-60-1 parking area storm drains equipped with PetroBarriers™

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G82 0134S Fueling Truck

This truck, Photograph 11, has a 2,000-gallon capacity diesel dispensing tank and a 1,000-gallon gasoline dispensing tank. The dispensing hoses are equipped with automatic overfill shutoffs and a manual emergency shut off valve at the truck. This truck was previously licensed under G82-0479S but the tank was placed on a new chassis, G82-0134S, in 2018.



Photograph 11: TA-60 G82 0134S (formerly G82 047S) Fueling Truck

E304640 Refueling Truck:

This truck, Photograph 12, is a Kenworth Chassis with a 4,400-gallon combined capacity Trans-Tech Tanker. It has a 2,000-gallon capacity for diesel, 1,000-gallon capacity for unleaded gasoline, 700-gallon capacity for E85, and a 700-gallon capacity B20 BIO diesel/reserve tank. The fuel dispensing hoses are equipped with automatic over-fill shutoffs and there is a manual emergency shut off valve at the truck. This truck replaced G82 01079 in 2016.

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Photograph 12: TA-60 E304640 Fueling Truck (replacement for G82 01079)

E29904 Fueling Truck

The 2,800-gallon truck, Photograph 13, has a 2,000-gallon E85 dispensing tank and an 800-gallon gasoline dispensing tank. The dispensing hoses are equipped with automatic overfill shutoffs and a manual emergency shut off valve at the truck.



Photograph 13: TA-60 E29904 Fueling Truck

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G82 0672D Service Truck

The service truck, Photograph 14, supplies oil, antifreeze, and grease on an on-call basis to undesignated or remote areas via onboard pumps. The truck is equipped with skid mounted tanks with reel-mounted dispensing hoses that have automatic overfill shutoffs. There are four 55-gallon polyethylene tanks and a 120 lb grease container all of which are skid mounted on the truck bed. The truck has pumps for dispensing liquids and grease through hose reels located on a fixed shelf on a lube skid that allows them to be accessed from the rear of the load-bed area.



Photograph 14: TA-60 G82 0672D Service Truck

2.3.2.2 Oil Transfer Equipment/Operations

There is no transfer piping associated with this plan. National Fire Protection Association (NFPA) 385 Tank vehicles for Flammable and Combustible Liquids, Section 9.2.1, states that loading and unloading of tank vehicles shall be done only in approved locations. Filling of the tank trucks is performed offsite. The Laboratory’s Emergency Operations Center (EOC) tanks are fueled by an outside operator. All refueling operations completed by LOG-HERG staff across Laboratory facilities are covered under this SPCC Plan. Facility specific SPCC Plans may require additional site specific fueling procedures that must be followed. There are several facilities at the Laboratory where refueling occurs but the oil capacity is under the threshold to require a SPCC. In general, the areas where refueling operations will take place do not have dikes, oil catch basins, or a diversion system. General secondary containment requirements apply and active containment measures will be used. Specific spill prevention and containment measures for facility transfer operations are listed below, and the table shows the methods to be used at each site.

- The delivery system is equipped with an automatic overfill shutoff nozzle and a manual safety valve at the tank to shut off fuel flow.
- Utilize and properly follow the Remote Refueling Checklist (Appendix D).
- Refueling operations are monitored by personnel at all times and emergency spill absorbent materials are located on each truck in service for immediate use if needed.
- The refueling activity will occur in a designated area that would prevent a spill from entering a watercourse before the spill could be cleaned up. The area should be a flat gravel lot or asphalt area with temporary storm drain protection or temporary berms installed as needed. If temporary BMPs are specified for a location, fueling will not occur unless the temporary BMP has been installed by the facility or refueler team.
- If refueling must occur at an undesignated location, the location will be inspected for adjacent storm drains and ditches. Temporary BMPs will be installed if required.
- Refueling will not occur during precipitation events in areas exposed to storm water.
- Storage tanks will not be filled over 90% unless the tank is equipped with a 95% overfill prevention valve. The facility must determine the current level of fuel in the tank and request the specific amount to be delivered to not overfill their tank.
- Storage tanks should be equipped with a level gage visible to refuelers. It is recommended that tanks be equipped with failsafe devices to prevent overfilling.
- Vehicles must not be filled past the point when the dispensing nozzle shutoff is activated, i.e., tanks must not be topped off with additional fuel.
- Future improvements may include installation of sight levels on tanks.

Stationary facilities with SPCC plans must describe facility transfer operations and appropriate procedures and containment. Table 2 identifies these facilities at the Laboratory where transfer operations are covered under a different SPCC Plan than this one. Table 2 also identifies the SPCC Plan where the associated procedures can be found. Table 3 identifies stationary facilities which are covered under this SPCC Plan.

| Designated Fueling Locations SPCC Regulated Facilities: Stationary Equipment | Site Specific Filling Procedure | General Secondary Containment Method (for refueling area) |
|---|--|---|
| TA-16 WETF Generator | described in facility SPCC Plan | <ul style="list-style-type: none"> • Temporary berms • Spill kit • Absorbent pads under nozzle |
| TA-50 Artic Generator | described in facility SPCC Plan | <ul style="list-style-type: none"> • Drain cover • Spill kit • Absorbent pads under nozzle |

Table 2. Stationary Facilities At LANL With Possible Fuel Transfer Operations Covered Under a Separate SPCC Plan

| Designated Fueling Locations SPCC Regulated Facilities: Stationary Equipment | Site Specific Filling Procedure | General Secondary Containment Method (for refueling area) |
|---|---|--|
| TA-3 Power Plant Emergency Generator | described in facility SPCC Plan and UOI 66-20-170 | <ul style="list-style-type: none"> • Spill container under refueling hose and absorbent pads • Attended by two personnel |
| TA-60 Emergency Generator Trailer (stored at TA-60 Electrical yard but location will change when in use) | described in facility SPCC Plan | <ul style="list-style-type: none"> • If required at deployed location: temporary berms • Spill kit • Absorbent pads under nozzle • Attended by two personnel |
| TA-33 Generator | described in facility SPCC Plan | <ul style="list-style-type: none"> • Spill kit • Absorbent pads under nozzle • Attended by two personnel |
| TA-3 SAS | described in facility SPCC Plan | <ul style="list-style-type: none"> • Spill kit • Absorbent pads under nozzle • Attended by two personnel |
| TA-48-270 Generator | described in facility SPCC Plan | <ul style="list-style-type: none"> • Spill kit • Absorbent pads under nozzle • Attended by two personnel |
| TA-48-271 Generator | described in facility SPCC Plan | <ul style="list-style-type: none"> • Spill kit • Absorbent pads under nozzle • Attended by two personnel |
| TA-55 PF8 Generator | described in facility SPCC Plan | <ul style="list-style-type: none"> • Spill kit • Absorbent pads under nozzle • Attended by two personnel |
| TA-55-362 CAS | described in facility SPCC Plan | <ul style="list-style-type: none"> • Spill kit • Absorbent pads under nozzle • Attended by two personnel |
| TA-55-364 Facility Emergency Generator | described in facility SPCC Plan | <ul style="list-style-type: none"> • Spill kit • Absorbent pads under nozzle • Attended by two personnel |
| TA-55 Facility Tanks in Sumps | described in facility SPCC Plan | <ul style="list-style-type: none"> • Spill kit • Absorbent pads under nozzle • Attended by two personnel |
| TA-55-551 Utility Building | described in facility SPCC Plan | <ul style="list-style-type: none"> • Spill kit • Absorbent pads under nozzle • Attended by two personnel |
| TA-55-583, 584, 585 RLUOB Generators | described in facility SPCC Plan | <ul style="list-style-type: none"> • Spill kit • Absorbent pads under nozzle • Attended by two personnel |
| TA-55 Vehicle Refueling | described in facility SPCC Plan | <ul style="list-style-type: none"> • Spill kit • Absorbent pads under nozzle • Attended by two personnel |

Table 2. Stationary Facilities At LANL With Possible Fuel Transfer Operations Covered Under a Separate SPCC Plan

| Designated Fueling Locations SPCC Regulated Facilities: Stationary Equipment | Site Specific Filling Procedure | General Secondary Containment Method (for refueling area) |
|---|--|---|
| TA-3 Power Plant Vehicle Refueling | described in this SPCC Plan | <ul style="list-style-type: none"> • Spill kit • Absorbent pads under nozzle • Attended by two personnel |
| TA-53 "Orange Box" Vehicle Fueling | described in this SPCC Plan | <ul style="list-style-type: none"> • Spill kit • Absorbent pads under nozzle • Attended by two personnel |

Table 3. Stationary Facilities At LANL With Possible Fuel Transfer Operations Covered Under This SPCC Plan

| Designated Fueling Locations: Stationary Equipment | General Secondary Containment Method |
|---|--|
| TA-3-1400 generator | <ul style="list-style-type: none"> • Attended by two people • Spill kit • Absorbent pads under nozzle |
| TA-3-1498 LDCC generator | <ul style="list-style-type: none"> • Attended by two people • Spill kit • Absorbent pads under nozzle |
| TA-35-88 generator | <ul style="list-style-type: none"> • Attended by two people • Spill kit • Absorbent pads under nozzle |
| TA-35-27 generator | <ul style="list-style-type: none"> • Attended by two people • Spill kit • Absorbent pads under nozzle |
| TA-3-40 generator | <ul style="list-style-type: none"> • Attended by two people • Spill kit • Absorbent pads under nozzle |
| TA-16-218 generator | <ul style="list-style-type: none"> • Attended by two people • Spill kit • Absorbent pads under nozzle |
| 43-1 generator | <ul style="list-style-type: none"> • Attended by two people • Spill kit • Absorbent pads under nozzle |
| 59-1 generator | <ul style="list-style-type: none"> • Attended by two people • Spill kit • Absorbent pads under nozzle |
| 64-1 generator | <ul style="list-style-type: none"> • Attended by two people • Spill kit • Absorbent pads under nozzle |
| 73-1 generator | <ul style="list-style-type: none"> • Attended by two people • Spill kit • Absorbent pads under nozzle |

| | |
|---------------------------|--|
| TA-33 portable generators | <ul style="list-style-type: none"> • Attended by two people • Spill kit • Absorbent pads under nozzle |
|---------------------------|--|

Refueling activities will be performed only at designated locations whenever possible. If on-call refueling of snowplows, lawnmowers etc. is required, it must be done at one of the designated locations throughout the lab identified in Table 4. If refueling must occur at an undesignated location, the location will be inspected for adjacent storm drains and ditches, and the Remote Refueling Checklist (Appendix D) will be followed in addition to implementing the required temporary BMPs. Procedures are discussed in earlier in this Section.

| Table 4. On-Call Refueling Locations At LANL | |
|---|---|
| Designated Fueling Locations: Vehicles and Mobile Equipment | General Secondary Containment Method |
| Heavy Equipment Shop TA-60-1 | <ul style="list-style-type: none"> • Attended by two people • Spill kit |
| PTLA vehicle fueling TA-64 | <ul style="list-style-type: none"> • Attended by two people • Spill kit |
| Utilities and Infrastructure Vehicles (TA-3-223, TA-46 SWSC) | <ul style="list-style-type: none"> • Attended by two people • Spill kit |
| TA-16 HE area | <ul style="list-style-type: none"> • Attended by two people • Spill kit |
| TA-54 fueling truck parking area TA-54 truck: (heavy equipment refueling area at end of Mesita del Buey road in Area G and at 54-315 access control to Area G) | <ul style="list-style-type: none"> • Spill kit |
| TA-60-250 Roads and Grounds | <ul style="list-style-type: none"> • Attended by two people • Spill kit |
| Unplanned locations: Emergency operations, remote well sites, etc. | <ul style="list-style-type: none"> • Attended by two people • Spill kit • Temporary BMPs will be installed if location requires. |

2.3.3 Secondary Containment Drainage Options

A description of the secondary containment provided for stationary locations is provided in Section 2.3.1. The poly-storage containment unit and the concrete secondary containment for oil storage contain drains which may be opened. These two locations are covered which minimize potential accumulation of precipitation. Precipitation which does occur within the secondary containment units is usually small and is allowed to evaporate. However, if it is necessary to drain secondary containment to ensure sufficient storage capacity valves exist. These valves must be maintained in a closed position unless the containment is being drained of standing water. If precipitation will be drained, follow the process delineated in the following paragraph.

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Prior to any discharge, storm water accumulations must meet Federal and State water quality standards. To ensure compliance with these standards, the following steps will be used for secondary containment unit discharge operations:

- Visually inspect accumulation to ensure that the water does not possess oil sheen, odor, or other constituents that could result in a harmful discharge.
- Take a pH reading.
- Note: The pH reading must be between 6 and 9.
- Notify facility DEP prior to a discharge.
- When necessary, notify EPC-CP to obtain authorization for release and for testing of contaminants other than pH.
- After authorization is received open the valve and allow the containment to drain via gravity.
- This is a manned process and at no time should the drain valve be left unmanned while the drain valves is in the open position.
- Close drain valve when storm water has drained or if the drain valve will be left unmanned while in the unopened position.
- Complete the Liquid Discharge Form (Appendix F) with the help of the DEP. The DEP will submit a copy to EPC-CP and retain a copy with the SPCC Plan.

The remaining units either have integral secondary containment for the tanks or the building provides secondary containment.

3.0 SPILL HISTORY

There have been no reportable spills at facilities covered under this SPCC Plan. There have been unreportable spills at facilities covered under this SPCC Plan. Appendix E provides this information in action to containing the current spill tracking log.

4.0 POTENTIAL SPILL VOLUMES AND RATES

The following sections provide information on the potential for spill events at the facility while Section 5 provides information on the established procedures to be implemented in the event of a spill. The Operating Group Line Management is the person accountable for discharge prevention and reporting to facility management.

4.1 Potential Event, Volume Release, Rate of Release

| Location | Volume Release (gallons) | Type of failure (discharge scenario) | Secondary containment/method/capacity and response measures |
|---|---------------------------------|---|--|
| Poly-storage containment unit | 55 gallons | Catastrophic | <ul style="list-style-type: none"> Secondary containment provided in excess of 100% capacity of largest storage container. Spill control kits are on-site for minor spills. |
| Oil storage within secondary containment | 55 gallons | Catastrophic | <ul style="list-style-type: none"> Secondary containment provided in excess of 100% capacity of largest storage container. Spill control kits are on-site for minor spills. |
| 525-gallon tank in northeast section of TA-60-1 outside of lower east bay | 525 gallons | Catastrophic | <ul style="list-style-type: none"> Secondary containment provided in excess of 100% capacity of container. Flows to oil water separator for oil recovery with discharge to sanitary wastewater collection system. Spill control kits are on-site for minor spills. Spill operations have personnel present which would minimize quantity of release. |
| All oil storage within TA-60-1 including four 500-gallon tanks located within TA-60-1 | 500 gallons | Catastrophic | <ul style="list-style-type: none"> Tanks are double walled. Building TA-60-1 provides secondary containment in excess of 100% capacity of volume. Spill control kits are on-site for minor spills. Spill operations have personnel present which would minimize quantity of release. |
| Three 500-gallon tanks located in outside storage shed | 500 gallons | Catastrophic | <ul style="list-style-type: none"> Tanks are double walled. Spill control kits are on-site for minor spills. Flows to oil water separator for oil recovery with discharge to sanitary wastewater collection system. Spill operations have personnel present which would minimize quantity of release. |
| Spill/leaks outside of containment area | 55 gallons | Spill | <ul style="list-style-type: none"> Spill operations have personnel present which would minimize quantity of release. Spill control kits are on-site and adequately stocked. |
| Tank Trucks | 2,000 gallons | Catastrophic | <ul style="list-style-type: none"> PetroBarrier™ protected storm drain in truck storage area. |
| Product Transfer Areas | 5 gallons | Spill | <ul style="list-style-type: none"> Oil spill contingency plan. Temporary berms, depends on location, see table in Section 2.4. |

4.2 Potential Spill Discharge Flow and Nearest Watercourse

| Table 6. Potential Spill Discharge Flow and Nearest Watercourse | | |
|--|---|---|
| Potential Event | How/Where Spill Could Flow | Nearest Watercourse |
| All Oil Storage in TA-60-1 HES | Oil inside facility would flow to drains that discharges to an oil/water separator which discharges to the sanitary wastewater collection system. | Sandia Canyon main drainage via surface drainage of approximately 1000 feet from storm drain outlets which are also NPDES MSGP permitted outfalls with additional controls. |
| All Oil Storage outside TA-60-1 HES | Oil inside facility would flow to either: (1) trench drains that discharge to an oil/water separator which discharges to the sanitary wastewater collection system or (2) sheet flow toward a NPDES MSGP permitted outfall. | Sandia Canyon main drainage via surface drainage of approximately 1000 feet from storm drain outlets which are also NPDES MSGP permitted outfalls with additional controls. |
| Refueling Trucks Storage Area at TA-60-1 Area | Sheet flow to a storm drain fitted with a PetroBarrier™ followed by sheet flow east towards Sandia Canyon. | Sandia Canyon main drainage via surface drainage of approximately 1000 feet from storm drain outlets which are also NPDES MSGP permitted outfalls with additional controls. |
| Product Transfer Areas | Spills during refueling operations / spills | Multiple dependent upon location, refer to Appendix E. |

5.0 SPILL PREVENTION AND CONTROL

5.1 Spill Prevention Features and Practices

Work at this facility is performed using LANL's five step Integrated Safety Management approach, which evaluates a task and identifies potential hazards such as a spill event to achieve effective spill response training for employees. Personnel involved with facility operations are instructed on safety precautions, initial spill response procedures, and how to use available spill cleanup material. The DEP for the facility is the designated person responsible for spill prevention, reporting and maintenance of the spill control equipment at the Facility. EPC-CP is responsible for providing available training programs. In addition to annual training, periodic spill prevention briefings may be conducted as necessary to inform operating personnel about spill events or failures, malfunctioning components, recently developed precautionary measures, or other SPCC-related issues.

- *Additional procedures for early detection and timely notification of an oil discharge* - Two personnel are present to monitor the refueling operations. The parking area is visited daily on work days. Notifications will occur as identified in Table 5.

Spill Control Equipment: Each oil storage areas within TA-60-1 has a spill kit in close proximity to the storage area. Each of the refuelers is equipped with a spill kit which is present during all refueling operations and when the truck is not in used and parked in the areas identified in this SPCC Plan. Spill kits that contains adequate universal sorbent or spill control pillows to handle minor spills and remove any oil or sheen from storm water collected in the secondary containments, as appropriate. Each spill kit also contains goggles, gloves, bags, ties, scoop and labels and shovels. Spill control material storage areas shall be inventoried regularly to assure that the proper materials are available in sufficient quantity and of sufficient quality to minimize the spread of oil products in the case of a spill prior to the arrival of response teams.

Spill Reporting: Spill reporting is accomplished through SPCC Plan documentation, Emergency Management Division-Emergency Response (EMD-ER) notification, and EPC-CP procedures. EPC-CP will complete required state, and federal reporting, including federal reporting of spills in excess of 1,000 gallons or two combined spills greater than 42 gallons in 12 months in accordance with Laboratory and Department of Energy (DOE) policies and federal and state regulatory reporting requirements per P322-3, *Performance Improvement from Abnormal Events*.
<https://int.lanl.gov/policy/documents/P322-3.pdf>.

| Table 7. Definition of authorities, responsibilities, and duties of all entities involved in oil removal operations | | |
|--|--|--|
| Authorities | Spill Reporting Responsibilities | Response Duties |
| Onsite workers | <u>Contact EMD-ER at 667-2400 (non-emergencies) or 911 (emergencies)</u> , if necessary. Notify DEP. If spill occurs after hours or on a weekend, please call the Spill Pager (664-7722) and EPC-CP on-call staff will respond | Qualified workers may, but are not required to, clean up simple/small spills |
| Facility Spill Team | Notify DEP | Qualified workers may clean up simple/small spills and manage waste per LANL procedures above. |
| EMD-ER | If EMD-ER is notified of a spill event, they will contact all additional applicable parties including EPC-CP | Respond per contingency plan |
| DEP | Complete appropriate forms, notify EPC-CP, and document spill in SPCC Plan in accordance with Section 1.3.2 | For small spills, contact the appropriate Waste Generator and Waste Management Coordinator for disposal. |
| EPC-CP Water Quality | Completion of spill reports that are reportable to federal and state agencies. Provide oversight for spill mitigation activities. | Provide information to federal and state agencies. |

5.2 Oil Spill Contingency Plan

All spills require response. Any spills that have the potential to enter a drain or water course, require immediate response and must be reported immediately to LANL EMD-ER office and EPC-CP.

Small incidental releases (e.g., vehicle oil, grease, fuel drip spots) and spills into the secondary containment will be addressed as part of good housekeeping and be cleaned up and properly disposed as soon as possible (usually on the day the spill was discovered). The cleanup will be conducted by properly trained personnel. It is the responsibility of the FOD to provide access to an appropriate Waste Generator and Waste Management Coordinator who is properly trained to dispose of spill materials.

All other spills will be reported to the Principal Facility Operator who will notify the Facility Manager, who then notifies the Utilities Operations Manager. The Operations Manager is responsible for notifying LANL EMD-ER and the FOD. If neither manager is available the principal operator will notify EMD-ER directly. The principal operator will address, if no health hazards exists, the cause of the spill and contain as much of the spill as possible until the EMD-ER team arrives.

The EMD-ER will determine to what level LANL's EMD-ER plan will be activated. In addition, appropriate cleanup procedures will be followed and the appropriate individuals or organizations responsible for the completion of appropriate spill reports will be notified.

| Table 8. Spill Contact Information | | | | |
|--|---|----------|----------|----------|
| If fire or explosion is present, or if the potential for such exists, the situation must be reported by dialing 911 or activating a fire pull box if available at the facility. | | | | |
| LANL 24- hr. Emergency Operations Support Center (EOSC) Number: 667-2400. | | | | |
| Name | Title | Work | Pager | Cell |
| Andrew Erickson | FOD, Utilities & Infrastructure – Division Office | 665-0106 | 664-5913 | 695-4122 |
| Brian Watkins | LOG Division Leader | 667-0562 | 664-5921 | 412-7882 |
| Larry Velasquez | LOG-HERG Group Leader | 665-2644 | | 695-6949 |
| Chris Sena | LOG-HERG Heavy Equipment Shop Superintendent | 667-5113 | | 551-4803 |
| Robert Lechel | DSESH-EPC-CP Team Lead | 665-6912 | 664-4383 | 699-7558 |
| EM&R | 24 hour emergency contact | 667-2400 | | |
| Jacob Knight | DEP | 665-5880 | | 257-8985 |

5.3 Security

TA-60-1 HES, TA-60-1 truck storage areas, and TA-54 are presently access-controlled areas. These areas are fenced and have gates, which are locked when the facility is unattended after 5 PM

weekdays and on weekends. Lighting at the facility is adequate to detect potential night spills and to deter vandals.

6.0 INSPECTIONS

Inspections include monthly inspections, annual SPCC walk around inspections, and certified inspections. Procedures for each are detailed below. Records of each are kept in accordance with Section 7.0, Record Keeping. In the event of a problem, the deficiency is documented on the applicable inspection form and corrective action will be taken. Any identified leaks or problems associated with the system will be promptly corrected, and any oil accumulations will be removed.

| Type | Frequency | Inspector |
|----------------------|----------------|--------------------|
| Periodic Inspections | Monthly | DEP |
| Annual SPCC | Annual | EPC-CP |
| Certified - DOT | Annual | Outside Contractor |
| Brittle Failure | Not applicable | N/A |

Various inspections are conducted at the units. These inspections include a daily inspection (checklist 41-20-001.1 R0) performed by the principal operator, monthly walk-around inspection by the DEP and an annual EPC-CP SPCC inspection. Records of each inspection are kept as described in Section 7.0 (Record Keeping) or in another appropriate folder or box. Completed Inspection Reports are filed as part of this SPCC Plan in Appendix D. Monthly and refueling operations inspection checklists are kept in a separate binder. A sample of the monthly and refueling operations inspection checklists are included in Appendix D. All of this information is kept in the Principal Operator’s trailer located at the facility.

In the event that a problem or concern is identified during an inspection or checklist walk-around, the inspector documents the deficiency or concern on the applicable form. All corrective actions should be planned, implemented and documented. The FOD or his representative would be directly involved with implementing these corrective actions. A record of the Corrective Actions will be kept in Appendix D. All identified leaks or problems associated with the units will be promptly corrected, and any oil accumulations will be removed. Records of these types of problems will be kept on file as part of the SPCC plan according to Section 3.0 (Spill History, and recorded in the spill log in Appendix E).

7.0 RECORDKEEPING

| Record Type | Location in SPCC Plan |
|-------------|-----------------------|
|-------------|-----------------------|

| | | |
|---|--------------------|----------------------------|
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| | |
|---|------------|
| Certification of the Applicability of the Substantial Harm Criteria | Appendix A |
| Amendment Log | Appendix B |
| Inspections (Daily, Monthly, Annual, and State) | Appendix D |
| Corrective Actions Records | Appendix D |
| Spill Reports/Spill Tracking Form | Appendix E |
| Storm Water Discharge | Appendix F |
| Training Records | Appendix G |

These inspection reports identify the date the inspection was performed, facility structural conditions, identified deficiencies; and contain the signature of the inspector.

In the event of a spill, the spill tracking form in Appendix E will be used to describe the spill, corrective action taken, and plans for preventing recurrence. Filled out forms are also maintained in Appendix E. Any discharge of storm water from any of the secondary containment units will be identified through completion of the form in Appendix F. A copy of the completed form will also be sent to EPC-CP and also maintained in Appendix F.

As required by 40 CFR 112.3(e), the SPCC Plan is to be maintained at the facility since the facility is manned at least 4 hours a day. Additionally, inspection procedures, signed inspections, drainage records, and spill reports will be retained as part of this SPCC Plan at the facility for a minimum period of three years. Following completion of the three-year period, the records will be forwarded to the EPC-CP Records Management Team to be retained in accordance with DOE requirements.

8.0 MAINTENANCE INSPECTIONS

Daily Inspection (Good Housekeeping) Walk-Around Checklist: Per DOT requirements the tanker trucks are inspected daily while in operation. Records are kept with the vehicles.

Monthly Visual Inspection: A monthly walk-around inspection of the facility will be performed by a DEP and a facility representative. The inspection form and inspection reports are filed in Appendix D. The inspection form identifies the inspector, inspection date, and identifies facility areas inspected. As part of these inspections, the tanks and refuelers (including tanker attachments and appurtenances) are visually inspected for leaks and for physical condition, including but not limited to rust, corrosion, or bulging. The secondary containment area(s) are inspected to determine if any leaks or spills have occurred, to ensure that the containment is free of storm water, to ensure that there are no physical defects in the containment that could cause it to fail, and to ensure that the containment drain valve is in good condition and locked. Leaks or potential problems will be brought to the attention of the Principal Operator and steps to address these problems through corrective action will be discussed. The inspector will sign the inspection form and place it in Appendix D in a timely manner. The monthly inspection form will be modified if changes in the SPCC regulations are not reflected in the current version.

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Annual Inspections: EPC-CP staff performs annual SPCC inspections to assess compliance with all aspects of the SPCC Plan including but not limited to recordkeeping, changes to the facility, the condition of the refuelers, storage containers, piping and associated equipment, and the secondary containment unit. This inspection also covers all requirements of the SPCC regulations. An inspection report is sent to the appropriate facility FOD and representatives in a timely manner. Completed annual inspection reports are maintained in Appendix D.

Certified Inspections: The tanker trucks are inspected annually per DOT requirements. All of the other storage tanks and portable containers that are part of this plan are less than 1100 gallons and per STI SP001 only require a periodic inspection as described above

Integrity, Brittle Failure and Catastrophe Inspections: Regulations require an evaluation for risk of discharge or failure due to brittle fracture or other catastrophe for field constructed ASTs that undergo a repair, alteration, reconstruction, or a change in service that might affect the risk of a discharge or failure. There are no field constructed oil storage ASTs at this facility. This evaluation does not apply

9.0 TRAINING

40 CFR Part 112.7 (f) (1) states, "Train your oil-handling personnel in the operation and maintenance of equipment to prevent discharges; discharge procedure protocols; applicable pollution control laws, rules, and regulations; general facility operations; and, the contents of the facility SPCC Plan."

Oil handling personnel and personnel that will have SPCC training at this facility include the:

- DEPs,
- Resource Manager,
- Principle Operator, and
- Personnel who conduct re-filling operations.

Required trainings include:

- An online training program (Course: #30441) has been developed that covers spill procedure protocols; applicable pollution control laws, rules, and regulations; and lessons learned - information on known spill events or failures, SPCC Plan elements, and spill response procedures. This self-study course is required at least once yearly for oil-handling personnel at this facility.
- Oil-handling personnel at this facility shall review this SPCC Plan annually and documentation of the training maintained in Appendix G of this SPCC Plan. Additional spill prevention briefings and information on known spill events or failures, malfunctioning equipment, and recently developed precautionary measures is provided to oil handling personnel through a request to EPC-CP or through periodic facility briefings on small spills.
- Site specific training is completed by required reading of this SPCC Plan and is documented in Appendix G.

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In addition to the above training, spill response personnel at LANL receive HAZWOPER training that covers spill prevention, control, and cleanup procedures.

The FOD or their representative(s) is responsible for ensuring that oil-handling personnel are properly instructed in the operation and maintenance of equipment at this facility to prevent the discharge of oil. Employee training programs must instill in oil-handling personnel, at all levels of responsibility, a complete understanding of the following:

- Contents of facility SPCC Plan
- General facility operations and maintenance of equipment
- The SPCC program
- Procedures for operator observation inspections
- Site safety hazards
- Practices for preventing spills
- Procedures for responding properly and rapidly to spills
- Protocol used to report spills
- Spill events or failures, malfunctioning components, and recently developed precautionary measures
- Additional applicable pollution control laws, rules, and regulations

Prior to the initiation of work, oil-handling personnel also receive LANL Hazard Communications (HAZCOM) training which covers spill prevention, control, and cleanup methods. Additional spill prevention briefings and information on known spill events or failures, malfunctioning equipment, and recently developed precautionary measures is provided to oil handling personnel through the Operating Experience OPEX/Lessons Learned Program, including PD323, LANL Operating Experience Program and P323-1, Operating Experience and Lessons Learned Process (<http://int.lanl.gov/org/ddops/aladeshqss/quality-performance-assurance/performance-assurance/opex.shtml>), or through periodic facility briefings on small spills. Lessons learned for oil spills will follow the normal lessons learned process for UI.

10.0 DEFINITIONS AND ACRONYMS

10.1 Definitions

See LANL [Definition of Terms](#).

“Active” Secondary Containment: Secondary containment features that require deployment or other specific action by the owner/operator (e.g., portable barrier, spill kit, spill response team, a valve that must be closed).

Oil: *Oil* of any kind or in any form, including, but not limited to: fats, oils, or greases of animal, fish, or marine mammal origin; vegetable oils, including oils from seeds, nuts, fruits, or kernels; and,

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other oils and greases, including petroleum, fuel oil, sludge, synthetic oils, mineral oils, oil refuse, or oil mixed with wastes other than dredged spoil.

Oil-Filled Operational Equipment: Equipment that includes an oil storage container (or multiple containers) in which the oil is present solely to support the function of the apparatus or the device. Oil-filled operational equipment is not considered a bulk storage container, and does not include oil-filled manufacturing equipment (flow-through process). Examples of oil-filled operational equipment include, but are not limited to, hydraulic systems, lubricating systems (*e.g.*, those for pumps, compressors and other rotating equipment, including pump jack lubrication systems), gear boxes, machining coolant systems, heat transfer systems, transformers, circuit breakers, electrical switches, and other systems containing oil solely to enable the operation of the device.

“Passive” Secondary Containment: Permanent installations that do not require deployment or action or the owner/operator (*e.g.*, vault, containment structure, dike)

Spill Prevention, Control, and Countermeasure Plan: The document required by 40 CFR 112.3 that details the equipment, workforce, procedures, and steps to prevent, control, and provide adequate countermeasures to a discharge.

Sufficiently Impervious: 40 CFR 112.7(c) states that the entire secondary containment system, “including walls and floor, must be capable of containing oil and must be constructed so that any discharge from a primary containment system will not escape containment before cleanup occurs.”

10.2 Acronyms

See LANL [Acronym Master List](#).

| | |
|------------------------|---|
| ALDFO | Facilities & Operations Directorate |
| BMP | Best Management Practice |
| CFR | Code of Federal Regulations |
| DEP | Deployed Environmental Professional |
| DOE | Department of Energy |
| DOT | Department of Transportation |
| EMD-ER | Emergency Management Division-Emergency Response |
| EOC | Emergency Operations Support Center |
| EPA | Environmental Protection Agency |
| EPC-CP | Environmental Protection and Compliance-Compliance Programs Group |
| FOD | Facility Operations Director |
| GSA | General Services Administration |
| HAZCOM | Hazard Communications |
| HES | Heavy Equipment Shop |
| LANL or the Laboratory | Los Alamos National Laboratory |
| LOG | Logistics Division |

| | | |
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| | |
|-----------|--|
| LOG-HERG | Logistics Operations-Heavy Equipment/Roads & Grounds Group |
| MSGP | Multi-Sector General Permit |
| NFPA | National Fire Protection Association |
| NM | New Mexico |
| NMAC | New Mexico Administrative Code |
| NMED | New Mexico Environment Department |
| NPDES | National Pollutant Discharge Elimination System |
| PE | Professional Engineer |
| Refuelers | Refueling Trucks |
| SPCC | Spill Prevention Control and Countermeasures |
| SWPPP | Construction Storm Water Pollution Prevention Plan |
| SWRI | Southwest Research Institute |
| TA | Technical Area |
| Triad | Triad National Security, LLC |
| UL | Underwriters Laboratories |
| U.S. | United States |

11.0 REFERENCES

- 40 CFR 112
- 20.5 NMAC

12.0 APPENDICES

Appendix A: Certification of the Applicability of the Substantial Harm Criteria

Appendix B: Amendment Log

Appendix C: Site Map and Photograph of Typical Stationary Equipment

Appendix D: Inspection Forms, Inspection Records, and Corrective Action Records

Appendix E: Spill Tracking Log, Notifications, and Spill Reports

Appendix F: Storm Water Discharge Forms

Appendix G: Training Records

Appendix H: PetroBarriers™ Specification Sheet

| | | |
|---|--------------------|----------------------------|
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Appendix A: Certification of the Applicability of the Substantial Harm Criteria

CERTIFICATION OF THE APPLICABILITY OF THE SUBSTANTIAL HARM CRITERIA

Facility Name: TA-60-1 Heavy Equipment Shop, LOG-HERG Refueling Facility and MSS-EWMO TA-54 Refueling Truck
Facility Address: TA-60 and TA-54, LANL, Los Alamos, NM

Does the facility transfer oil over water to or from vessels and does the facility have a total oil storage capacity greater than or equal to 42,000 gallons?

Yes _____ No X

Does the facility have a total oil storage capacity greater than or equal to 1 million gallons and does the facility lack secondary containment that is sufficiently large to contain the capacity of the largest aboveground oil storage tank plus sufficient freeboard to allow for precipitation within any aboveground oil storage tank area?

Yes _____ No X

Does the facility have a total oil storage capacity greater than or equal to 1 million gallons and is the facility located at a distance (as calculated using the appropriate formula in accordance with EPA 40 CFR 112, App. C) such that a discharge from the facility could cause injury to fish and wildlife and sensitive environments?

For further description of fish and wildlife and sensitive environments, see Appendices I, II, and III to DOC/NOAA's "Guidance for Facility and Vessel Response Plans: Fish and Wildlife and Sensitive Environments" and the applicable Area Contingency Plan.

Yes _____ No X

Does the facility have a total oil storage capacity greater than or equal to 1 million gallons and is the facility located at a distance (as calculated using the appropriate formula in accordance with EPA 40 CFR 112, App. C) such that a discharge from the facility would shut down a public drinking water intake 2?

Yes _____ No X

Does the facility have a total oil storage capacity greater than or equal to 1 million gallons and has the facility experienced a re-portable oil spill in an amount greater than or equal to 10,000 gallons within the last 5 years?

Yes _____ No X

CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document, and that based on my inquiry of those individuals responsible for obtaining this information, I believe that the submitted information is true, accurate, and complete.

Brian Watkins
Name (please type or print)

Logistics Division Leader
Title

Signature

Date

| | | |
|---|--------------------|----------------------------|
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Appendix B: Amendment Log

SPILL PREVENTION CONTROL AND COUNTERMEASURE

PLAN REVIEW PAGE

I have completed review and evaluation of the SPCC Plan and will or will not amend the plan as indicated below.

| Review Dates | Signature | Name | Title | Amendment & Stamped (yes/no) |
|---------------------|------------------|---------------|------------------------------|---|
| March 2010 | (See File) | Terrill Lemke | Registered Professional Year | Yes & Yes |
| April 2015 | (See File) | Albert Dye | SPCC Coordinator, ENV-CP | Yes & Yes |
| September 2020 | | Steve Pearson | SPCC Coordinator, ENV-CP | Yes & Yes |
| | | | | |
| | | | | |
| | | | | |

In accordance with 40 CFR 112.5(b), a review and evaluation of this SPCC Plan is conducted at least once every five years. As a result of this review and evaluation, the SPCC Plan will be amended within six months of the review to include more effective prevention and control technology if: (1) such technology will significantly reduce the likelihood of a spill event from the facility, and (2) if such technology has been field proven at the time of review. Any amendment to the SPCC Plan shall be certified by a Professional Engineer within six months after a change in the facility design, construction, operation, or maintenance occurs which materially affects the facility's potential for the discharge of oil into or upon the navigable waters of the United States or adjoining shorelines. Non-technical amendments do not need to be certified by a Professional Engineer.

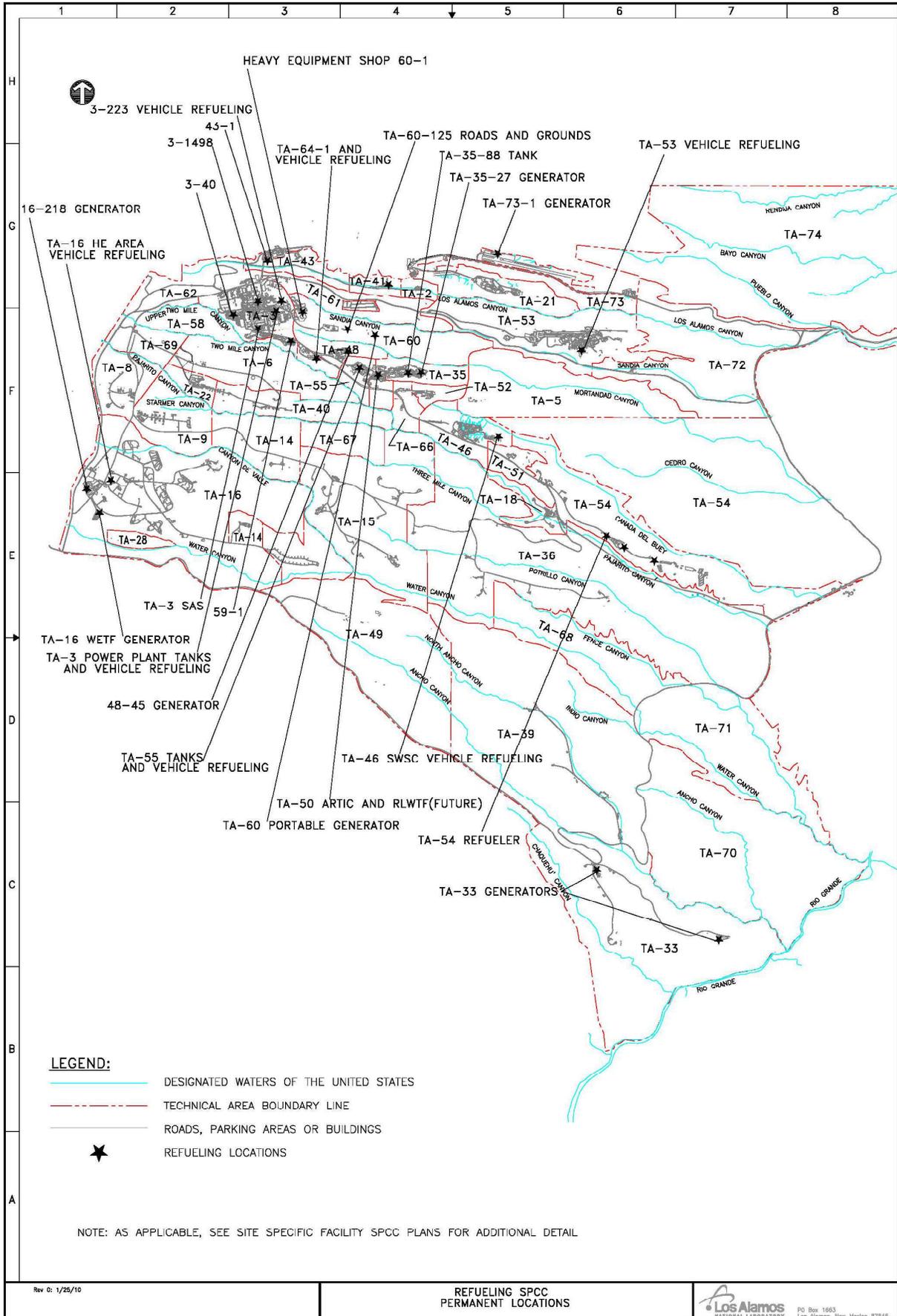
| Date | Plan Section | Reason for Amendment | Amendment | PE Certification needed? |
|--------------|--------------|--|---|--------------------------|
| March 2010 | All | Initial Issuance | | Yes |
| April 2015 | All | 5-Year Review | Update of SPCC Plan for changes to covered vehicles, fueling locations, storage site BMPs, and organizational changes | Yes |
| May 2017 | All | Additional oil storage at TA-60-1 HES | Updated fueling truck information and oil storage for TA-60-1 HES. Updated facility contact information. Updated inspection checklists. Updated spill report information. Updated facility map. | Yes |
| October 2020 | All | 5-Year Review, Additional new oil storage at TA-60-1 HES | Updated document format and oil storage information for planned changes to stationary storage, and completed changes to refuelers, including removing TA-54 refueler. | Yes |
| | | | | |
| | | | | |
| | | | | |
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Appendix C: Site Map and Photograph of Typical Stationary Equipment



TA-60-1 HES & Refueling Truck Parking Area





Typical Emergency Generator where refueling operations take place (TA-48-1)

| | | |
|---|--------------------|----------------------------|
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Appendix D: Inspection Forms, Inspection Records, and Corrective Action Records

**Blank Monthly Inspection Forms
Blank Annual SPCC Inspection Form
Results of Annual Tests by Others Form
Remote Refueling Checklist**

**Copies of Monthly Inspection Forms, Annual Inspection Reports, and DOT Tanker Inspection
Certifications for All Tanker Trucks**

| | | |
|---|--------------------|----------------------------|
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AST Periodic Inspection Checklist – Refuelers/TA-60-1 Heavy Equipment Shop

Note any leaks, deficiencies, or changes. Repair any deficiencies found. If the tank or secondary containment has a leak, remove tank from service within 24 hours.

Frequency: Monthly

| Date: | Inspector: | |
|--|---------------------------------|-----------------|
| Item Inspected: | Corrective Action Needed | Comments |
| G82 0134S (Fueling Truck) | | |
| E304640 (Fueling Truck) | | |
| E29904 (Fueling Truck) | | |
| G82 0672D (Service Truck) | | |
| Outdoor Drum Storage in Secondary Containment Unit (SE Corner) | | |
| Used Oil Tank 125 Gal (SE) | | |
| Poly Storage Containment Unit and Drums | | |
| Used Oil Tank 525 Gal (NE) | | |
| Indoor drum/tanks, oil filter crushing | | |
| Storm Drains with PetroBarriers | | |
| Trench Drain to Oil-Water-Separator | | |

| | | |
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REFUELING ANNUAL SPCC WALK-AROUND INSPECTION FORM

Inspection Date: _____ Certified Inspector: _____

Others Present: _____

| General Information | Status | Comments |
|--|--------|----------|
| Last SPCC review/revision date | | |
| Any changes to facility that impact ability to discharge oil? (new or removed tanks, oil filled equipment, or drums; changes to procedures): | | |
| SPCC Records maintained? | | |
| Training complete? | | |
| Spill Control equipment | | |
| Refueling areas (signs of spills, BMPs available for temporary drainage control) | | |
| Security (lighting, fencing) | | |

| Tanker Trucks | Status | Comments |
|---|--------|----------|
| Tank Shell and Coating Condition | | |
| Piping, Pumps, Flanges, Valves, Vents, dispensers Condition | | |
| General Condition of Containment Unit: | | |
| Housekeeping | | |
| Other Issues | | |

Results of annual certification tests

G82 0134S DOT Certified Date: _____

G82 0672D DOT Certified Date: _____

E29904 DOT Certified Date: _____

E304640 DOT Certified Date: _____

| Recycle Oil Tanks | Status | Comments |
|---|--------|----------|
| Tank Shell and Coating Condition | | |
| Piping, Pumps, Flanges, Valves, Vents Condition | | |
| General Condition of Containment Unit: | | |
| Housekeeping | | |
| Other Issues | | |

| Portable Container Storage Areas | Status | Comments |
|--|--------|----------|
| Spill Control equipment | | |
| Housekeeping | | |
| Security (lighting, fencing) | | |
| Area drainage | | |
| Condition of secondary containment (discharge valve closed (if any), accumulated water, etc) | | |
| Condition of containers and containments (dents, bulging, leaks, etc.) | | |

| | | |
|---|--------------------|----------------------------|
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Items Requiring Corrective Actions: _____

Corrective actions taken (give dates): _____

Other Comments: _____

Inspector's signature: _____ Date: _____

Owner/Operator signature: _____ Date: _____

| | | |
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Los Alamos National Laboratory LOG-HERG Refueling Trucks SPCC Plan Remote Refueling Checklist

Overview:

Pursuant to 40 CFR 112 of the Oil Pollution Prevention Regulations and this SPCC Plan, the check list of questions below must be fully evaluated to determine if the site is acceptable for refueling of construction equipment and off-road construction vehicles.

References:

The information in this document is based on and in compliance with the Technical Standards and Safety Act, 2000 and the Technical Standards and Safety Authority’s (TSSA) Liquid Fuels Handling Code, 2007.

Refueling Criteria:

Dispensing of fuel shall not take place within

- 1) a building;
- 2) during a precipitation event (heavy raining, snowing, etc.);
- 3) within 90 feet of access to a storm drain, arroyo, drainage channel, or watercourse;
- 4) 5 feet from any opening in a building; or
- 5) 9 feet from any source of ignition.

BMP’s for Refueling:

- 1) Perform regular preventative maintenance on tanks and fuel lines
- 2) Use dry cleanup methods for the fueling area as opposed to hosing it down; use dry sweeping compounds.
- 3) **Avoid topping** off fuel tanks in receiving equipment, which may cause spills by overfilling
- 4) Refuel in areas of impervious pavements. This allows for spill cleanup using dry absorbent materials before precipitation can wash spills away.
- 5) Use drip pan under hose and dispensing nozzle.
- 6) Use fueling hoses with check valves to prevent hose drainage.
- 7) Train personnel on remote fueling BMP’s

The fueling truck is equipped with spill control equipment to address potential spills from fueling activities: Yes No

If the refueling activity does not meet all of the items and spill control equipment is not available on the refueling vehicle, contact EPC-CP at (667-0666) to assess alternative and/or additional BMP requirements.

I certify that the above information is correct to the best of my knowledge:

Fueller’s Signature

Date:

| | | |
|---|--------------------|----------------------------|
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Appendix E: Spill Tracking History, Log, Notifications, and Spill Reports

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| Spill History all reportable releases during history of facilities under this SPCC Plan | | | | |
|--|----------------------------------|--|-----------------------------|--|
| Location Description (Date) | Type and Amount | Cause/Description of Damage/Corrective Action Taken | Watercourse Affected | Action Taken to Prevent Recurrence |
| Outside TA-54 ops center (4/1/11) | Diesel 1 Pint | Diesel fuel spilled from fuel tank overflow. Absorbent pads applied immediately. | No | Review preventative measures with personnel (caution workers not to overfill tanks on fuel tank). Operational area transferred to EM-LA Contractor in 2018. |
| TA-54 Across from Muster Station 3 (6/13/11) | Diesel ~2 gallons | Spill occurred during refueling due to an open valve on fuel truck. Absorbent pads were used to remediate. | No | Review preventative measures with personnel (perform valve check before refueling). |
| TA-54 Admin Equipment Yard (7/12/12) | Gasoline ~ 1 gallon | Discharge from a loose fitting on a fuel truck in the administration equipment yard. The impacted soil was removed and micro-blaze absorbent was applied to the area | No | Review preventative measures with personnel (ensure drip pans placed under fuel truck while refueling). Operational area transferred to EM-LA Contractor in 2018. |
| TA-54 Laydown Yard (12/10/12) | Fuel 16 oz | Spill occurred during refueling of the TA-54 Tanker Truck. Spill was cleaned up and waste was properly disposed of. | No | Operational area transferred to EM-LA Contractor in 2018. |
| TA-60-1 (8/30/13) | Unleaded Gasoline 1.5 gallons | Overfill of tanker truck refueling truck G82-0414A {now G82 0134S} parked on incline. Absorbent applied and the area was sprayed with several applications of micro-blaze. | No | Review preventative measures with personnel. Vehicle decommissioned in 2016 and replaced with G82 0134S Refueler. |
| North of TA-54-0002 (9/23/13) | Gasoline < .5 gallon | Microvan was overfilled during refueling activities. The vehicle was pushed to level ground to stop spill. The impacted soil was removed. | No | Review preventative measures with personnel. |
| Area G Refueling Area (3/19/14) | Diesel 2 gallons | Operator spilled fuel onto asphalt while fueling vehicle. Fuel was absorbed with pads, pigs, and absorbent the same day. Area sprayed with micro-blaze. | No | Review preventative measures with personnel. |
| TA-60-1 (10/28/14) | Diesel <1 quart | Spill occurred during replacement of dispenser nozzle and subsequent leakage of residual from hose on G82-01414A. Absorbent applied and the area sprayed with micro-blaze. | No | Vehicle maintenance/review preventative measures with personnel. Vehicle decommissioned in 2016 and replaced with G82 0134S Refueler. |
| SIMR-2 Well Site (6/24/15) | Diesel <0.5 gallon | Spill occurred during refueling operations. Approximately 3 gallons of petroleum contaminated soil was cleaned-up and taken away for proper disposal. | No | Review preventative measures with personnel. Vehicle decommissioned in 2016 and replaced with G82 0134S Refueler. |

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| Spill History all reportable releases during history of facilities under this SPCC Plan | | | | |
|--|----------------------------|---|---------------------------------|--|
| Location Description (Date) | Type and Amount | Cause/Description of Damage/Corrective Action Taken | Watercourse Affected | Action Taken to Prevent Recurrence |
| R-67 Well Pad (8/3/15) | Diesel 8-12 oz | Faulty nozzle on refueling truck G82-0414A caused an overfill. Diesel spilled onto the basecourse. Basecourse was cleaned up immediately and taken away for proper disposal. | No | Vehicle maintenance/review preventative measures with personnel. Vehicle decommissioned in 2016 and replaced with G82 0134S Refueler. |
| R-67 Well Pad (8/5/15) | Diesel 8 oz | Loose filter fittings from refueling truck G82-0414A caused fuel to drip onto the well pad basecourse while truck was leaving site. The basecourse was cleaned up and taken away for disposal. | No | Vehicle maintenance/review preventative measures with personnel. Vehicle decommissioned in 2016 and replaced with G82 0134S Refueler. |
| SIMR-2 Well Pad (8/6/15) | Diesel ~8 oz | Faulty nozzle on refueling truck G82-0414A caused a small amount of diesel fuel to spill onto the well pad basecourse. The basecourse was cleaned up immediately and taken away for proper disposal. | No | Vehicle maintenance/review preventative measures with personnel. Vehicle decommissioned in 2016 and replaced with G82 0134S Refueler. |
| R-67 Well Pad (8/6/15) | Diesel ~ 2 Tbsp | Diesel dripped out of the back of refueling truck G82-0414A. The basecourse was cleaned up and taken away for disposal. | No | Vehicle maintenance/review preventative measures with personnel. Vehicle decommissioned in 2016 and replaced with G82 0134S Refueler. |
| TA-54 Area G Refueling Area (11/12/15) | Diesel ~ .5 gallons | The release occurred during refueling operations when the auto shutoff did not stop the flow in time. The flow was stopped manually and the tanker truck was removed from the site for maintenance. Pads and absorbents were used to remediate the spill. | No | Review preventative measures with personnel. Operational area transferred to EM-LA Contractor in 2018. |
| TA-54 access road just inside the main gate (9/15/16) | Gasoline < Cup | Mobile refueler truck leaked onto asphalt surface. The vehicle was removed to complete maintenance on the vehicle. Micro-blaze was applied to impacted area. | No | Review preventative measures with personnel. Operational area transferred to EM-LA Contractor in 2018. |
| TA-60-1 (11/9/16) | Diesel 1 gallon | Refueling truck G82-01079 leaked approximately 1 gallon of diesel fuel onto the asphalt parking lot when the back pump vent malfunctioned on the truck. The spill was immediately cleaned up with absorbent material. | No | Decommissioned in 2016 and replaced with E304640 Refueler. |
| TA-3-233 (2/15/17) | Diesel <1 cup | Refueling truck E304640 leaked a small amount of diesel fuel onto the pavement while refueling another vehicle. The driver cleaned up the fuel with absorbent material. | No | Review preventative measures with personnel. |

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| Spill History all reportable releases during history of facilities under this SPCC Plan | | | | |
|--|--------------------------|--|-----------------------------|--|
| Location Description (Date) | Type and Amount | Cause/Description of Damage/Corrective Action Taken | Watercourse Affected | Action Taken to Prevent Recurrence |
| Heavy Equipment Yard (9/20/17) | Oil <1 gallon | Three small releases identified with one related to equipment under this SPCC Plan: evidence empty oil drum within secondary containment on SE side seeped. Area microblazed/oil absorbent applied. | No | Review preventative measures with personnel. |
| TA-60-1 outside of southeast repair bay (1/25/18) | Coolant <5 gallon | Coolant line leak from refueling truck E29904 during repairs onto the concrete pad. Leak stopped, dry absorbant applied, and leak contained on-site. Did not reach storm drain. | No | Completed repairs on vehicle. |
| Intersection of Eniwetok and Maniac Roads (8/8/18) | Gasoline 1 cup | During refueling of a man lift the truck's fuel hose developed a leak while dispensing fuel onto the underlying soil west of TA-60-01. Operation stopped upon discovery of spill and the impacted soil was removed. | No | Vehicle maintenance completed. |
| TA-60-1 north side of east lot (2/27/19) | Oily water ~3 gallon | During lifting a bin, containing a drum of oil filters, to move it to the MRF the drum opened and a mix of residual storm water in the bin and oil leaked. Spill primarily to asphalt with a small area of impacted soil. Absorbent applied to impacted area to remove residual water. Micro-blaze applied. Impacted soil removed. | No | Review preventative measures with personnel. |
| TA-60-1 near refueling area (12/18/19) | Oil <1 gallon | Oil spilled on asphalt. HOW WAS THIS CLEANED UP | No | Review preventative measures with personnel. |
| TA-60-1 east side by center bay and center of upper east lot (3/25/20) | Oil <5 gallons | Minor leaks from heavy equipment stored within TA-60-1, including diesel tanker truck E29904 and in southeast corner TA-60-1 product storage area. Spills cleaned up and micro-blazed. | No | Review preventative measures with personnel. |
| TA-60-1 outside door of upper bay on east side (4/17/20) | Antifreeze <5 gallons | Two anti-freeze spills associated with a fuel truck that had a heater hose leak. HOW WAS THIS CLEANED UP | No | Vehicle maintenance completed. |
| TA-60-1 Heavy Equipment Yard (6/1/20) | Diesel <2 gallon | Fuel filter gasket on refueling line failed during transfer of fuel to pick-up truck releasing diesel onto asphalt. Absorbent pads and Micro-Blaze applied to impacted area. Filter was replaced. | No | Filter replacement added to preventative maintenance schedule. |

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TA-60-1 HES and LOG-REFUELERS – SPILL TRACKING LOG

| Date and time | Spill Location | Quantity discharged in arroyo, stream, river, or canyon | Type, source, Material and Quantity Spilled* | Description of affected media | Cause of discharge | Damages or injuries caused by discharge | Corrective Action Taken | Evacuation needed? | Names of those contacted |
|---------------|----------------|---|--|-------------------------------|--------------------|---|-------------------------|--------------------|--------------------------|
| | | | | | | | | | |
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Notification of Spills and Unauthorized Discharges

Who Must Provide Notification? The owner, operator, or person in charge of any Facility where a discharge has occurred must provide notification such release to the New Mexico Environment Department.

What Kinds of Discharges Must be Reported? Any amount of any material in such quantity as may with reasonable probability injure or be detrimental to human health, animal or plant life, or property, or may unreasonably interfere with the public welfare or the use of property. This includes chemical, bio-hazardous, petroleum-product, and sewage spills and incidents. In addition to recent spills, the discovery of evidence of previous unauthorized discharges, such as contaminated soil or ground water, also must be reported.

Are There Reportable Quantities? New Mexico has not established reportable quantities.

When Must Notification Be Provided? Verbal notification must be provided as soon as possible after learning of a discharge, but in no event more than twenty-four (24) hours thereafter.

How Should Notification be provided?

For emergencies, call 505-827-9329 twenty-four hours a day.

For non-emergencies, call 866-428-6535 (voice mail, twenty-four hours a day).

For non-emergencies, and to reach an on-duty NMED staff member during normal business hours, call 505-827-2855.

| | | |
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TA-60-1 HEAVY EQUIPMENT SHOP / LOG REFUELERS – SPILL REPORTS

| | | |
|---|--------------------|----------------------------|
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Appendix F: Storm Water Discharge Forms

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**STORM WATER DISCHARGE RECORD
FOR
SECONDARY CONTAINMENT**

DO NOT DISCHARGE, especially into a watercourse or storm drain before filling out this form AND calling EPC-CP at 667-0666 for approval to discharge.

LOCATION: TA- _____ Near or at Building _____

GROUP CONTACT: _____

PHONE: _____ CELL: _____

SOURCE OF DISCHARGE: Detention Pond _____

Secondary Containment Other

DESCRIBE DISCHARGE: _____

DATE AND TIME OF DISCHARGE: _____

NEAREST CANYON AFFECTED: _____

VOLUME OF DISCHARGE: _____ gallons

VISUAL DESCRIPTION OF DISCHARGE:

- pH: _____
- Color: _____
- Clarity: _____
- Odor: _____
- Sheen: _____

OTHER ANALYSES REQUESTED:

LAB DOING ANALYSES:
COMMENTS:

PHONE#:

Signature: _____

Date: _____

| | | |
|---|--------------------|----------------------------|
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Appendix G: Training Records

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Appendix H: PetroBarriers™ Specification Sheet

**SPI STORM DRAIN PETRO-BARRIER BOX™
USED FOR OIL CONTAINMENT**

SPI Storm Water Petro-Barrier-Boxes are custom manufactured for any size storm drain for a variety of applications. SPI customers that have used our technology solutions for years for oil spill containment saw the need to expand the use of our technology for storm water drains. Every Petro-Barrier-Box is built to the same standards as other SPI products allowing oil free water to pass only absorbing trace oil sheen and totally shutting down in an oil spill.



Petro-Barrier-Box is two parts the mounting flange that is attached to the iron rim that supports the storm grate. The rim is first cleaned removing all residue and then the flange is attached with construction adhesive. The adhesive dries permanently attaching the flange to the iron rim. The aluminum used is 1/8" and the grate is minimally raised to prevent problems. The Petro-Barrier-Box is lowered through the flange and is attached with stainless steel screws. There is a 4" manual overflow valve to evacuate water in an emergency, this is operated with a T-Handle and turned 10 times to fully open. The T-Handle must then be fully



Closed to ensure Storm Water Petro-Barrier-Box is in full protection mode.. In many applications the T-handle will slip through the grate to open and close the valve.

The Petro-Barrier-Box requires routine maintenance for proper operation. Each box must be cleaned by removing and replacing the dirt and debris filters on an as needed basis. The cleaning schedule needs to be developed on site since all environmental situations vary by location.



Water has backed up from the storm drain. Petro-Barrier-Box is not draining well and needs maintenance.



Storm grate is fully covered with water with Petro-Barrier-Box installed. No maintenance has been performed in 9 months.

Petro-Barrier-Boxes require more maintenance than other SPI products. Storm drains are usually in parking lots and high traffic areas that drain a large area and also are more exposed to fine dirt, leaves and other materials. Developing a maintenance procedure will prevent this situation and keep the Petro-Barrier-Boxes working with few problems.



The water has been evacuated from the surrounding area by raising the overflow valve. Directly under the grate the mud, sludge and debris is removed.



The second set of dirt filters are removed finally showing some clean filter on the bottom. The dirt had made it to the second set of dirt filters but did not impact the Barrier-Box.



All of the dirt, mud and debris is cleaned from the pre-filter in the flanged area. New filters are installed above the Petro-Barrier-Box, none of the dirt made it through the filters.



The top layer of filters is placed inside the flanged area including filters around the by-pass valve. The grate is then replaced and the Petro-Barrier-Box is back in service.

The storm Drain Petro-Barrier-Boxes will allow water to pass while filtering oil sheen in most cases to below 1ppm and still provide 100% Oil Spill Protection.