LA-UR-25-20718

Approved for public release; distribution is unlimited.

Title: TA-60-0001 Heavy Equipment Shop MSGP SWPPP Jan 2025 Rev 6

Author(s): Knight, Jacob Lamar

Intended for:

Issued: 2025-01-27

Los Alamos
NATIONAL LABORATORY

Los Alamos National Laboratory, an affirmative action/equal opportunity employer, is operated by Triad National Security, LLC for the National Nuclear Security Administration of U.S. Department of Energy under contract 89233218CNA000001. By approving this article, the publisher recognizes that the U.S. Government retains nonexclusive, royalty-free license to publish or reproduce the published form of this contribution, or to allow others to do so, for U.S. Government purposes. Los Alamos National Laboratory requests that the publisher identify this article as work performed under the auspices of the U.S. Department of Energy. Los Alamos National Laboratory strongly supports academic freedom and a researcher's right to publish; as an institution, however, the Laboratory does not endorse the viewpoint of a publication or guarantee its technical correctness.

MSGP Stormwater Pollution Prevention Plan

TA-60-0001 Heavy Equipment Shop

Triad National Security, LLC
Los Alamos National Laboratory

January 2025

Revision 6

Page intentionally blank

TABLE OF CONTENTS

PREFACE 6

1.0 FACILITY DESCRIPTION 7
1.1 Facility Information 7
1.2 Stormwater Pollution Prevention Team (PPT) 7
1.3 Site Description 9
1.4 General Location Map 10
1.5 Site Map 10

2.0 POTENTIAL POLLUTANT SOURCES 12
2.1 Potential Pollutants Associated with Industrial Activity 12
2.2 Spills and Leaks 14
2.3 Unauthorized Non-Stormwater Discharges 21
2.4 Salt Storage 22
2.5 Historical Data Summary 23

3.0 STORMWATER CONTROL MEASURES 24
3.1 Non-Numeric Technology-Based Effluent Limits 24
3.1.1 Minimize Exposure 25
3.1.2 Good Housekeeping 26
3.1.3 Maintenance 27
3.1.4 Spill Prevention and Response 28
3.1.5 Erosion and Sediment Control 29
3.1.6 Management of Runoff 29
3.1.7 Salt Storage Piles or Piles Containing Salt 30
3.1.8 Dust Generation and Vehicle Tracking of Industrial Materials 30
3.2 Numeric Effluent Limitations Based on Effluent Limitations Guidelines 30
3.3 Water Quality-Based Effluent Limitations and Water Quality Standards 30

4.0 SCHEDULES AND PROCEDURES 31
4.1 Good Housekeeping 31
4.2 Maintenance 31
4.3 Spill Prevention and Response 31
4.4 Erosion and Sediment Control 31
4.5 Employee Training 31
4.6 Routine Facility Inspections and Quarterly Visual Assessments 32

4.6.1 Routine Facility Inspections 32
4.6.2 Quarterly Visual Assessments 33
4.7 Monitoring 34

5.0 DOCUMENTATION FOR ELIGIBILITY CONSIDERATIONS UNDER OTHER FEDERAL LAWS 37

5.1 Endangered Species 37

5.2 Historic Properties 37

6.0 CORRECTIVE ACTIONS AND DEADLINES 38

6.1 Immediate Actions 39

6.2 Subsequent Actions 39

6.3 AIM Baseline Status and Triggering Events 39

6.3.1 AIM Level 1 39
6.3.2 AIM Level 2 40
6.3.3 AIM Level 3 40
6.3.4 AIM Exceptions 40
6.4 Corrective Action and AIM Documentation 41

7.0 ACRONYMS 42

8.0 SWPPP CERTIFICATION 43

FIGURE A: GENERAL LOCATION MAP 44

FIGURE B-1: FACILITY SITE MAPS 45

FIGURE B-2: RECEIVING WATERS MAP 46

FIGURE B-3: LANL ENDANGERED SPECIES MAP 47

ATTACHMENT 1: NOTICE OF INTENT, SUPPORTING DOCUMENTATION, AND UPDATES 48

ATTACHMENT 2: SWPPP AMENDMENTS 49

ATTACHMENT 3: CERTIFICATION OF NO UNAUTHORIZED STORMWATER DISCHARGES 50

ATTACHMENT 4: DULY AUTHORIZED SIGNATORY MEMORANDUM 51

ATTACHMENT 5: DISCHARGE MONITORING REPORTS 52

ATTACHMENT 6: ANNUAL REPORTS 53

ATTACHMENT 7: ROUTINE FACILITY INSPECTIONS 54

ATTACHMENT 8: QUARTERLY VISUAL ASSESSMENTS 55

ATTACHMENT 9: CORRECTIVE ACTION DOCUMENTATION AND CERTIFICATION 56

ATTACHMENT 10: SCHEDULED MAINTENANCE LOG 57

ATTACHMENT 11: TRAINING DOCUMENTATION 60

ATTACHMENT 12: MSGP (OR ACTIVE URL) 61

ATTACHMENT 13: THREATENED AND ENDANGERED SPECIES HABITAT MANAGEMENT PLAN FOR LOS ALAMOS NATIONAL LABORATORY 62

ATTACHMENT 14: MSGP IPAC TRUST RESOURCES REPORT 63

ATTACHMENT 15: EPC-CP-PIP-2101, *NPDES MULTI-SECTOR GENERAL PERMIT* 64

ATTACHMENT 16: EPC-CP-QP-2108, *MSGP ROUTINE FACILITY INSPECTIONS* 65

ATTACHMENT 17: EPC-CP-QP-2109, *MSGP CORRECTIVE ACTIONS* 66

ATTACHMENT 18: EPC-CP-QP-2105, *MSGP STORMWATER VISUAL ASSESSMENTS* 67

ATTACHMENT 19: EPC-CP-TP-2103, *INSPECTING ISCO STORMWATER RUNOFF SAMPLERS AND RETRIEVING SAMPLES* 68

ATTACHMENT 20: EPC-CP-QP-2106, *PROCESSING MSGP STORMWATER SAMPLES* 69

ATTACHMENT 21: EPC-CP-QP-0903, *ENVIRONMENTAL REPORTING REQUIREMENTS FOR RELEASES OR EVENTS* 70

ATTACHMENT 22: EPC-CP-QP-1007, *UNPLANNED RELEASES* 71

ATTACHMENT 23: EPC-CP-QP-2110, MSGP STORMWATER POLLUTION PREVENTION PLAN PREPARATION AND MAINTENANCE 72

ATTACHMENT 24: TA60-0001 HEAVY EQUIPMENT SHOP OIL/WATER SEPARATOR (TA-60-0313) OPERATIONS AND MAINTENANE MANUAL 73

ATTACHMENT 25: SPILL PREVENTION CONTROL AND COUNTERMEASURE PLAN FOR THE LOG-HERG REFUELING TRUCKS 74

TA-60-0001 Heavy Equipment Shop
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. The SWPPP uses the industry specific permit requirements for *Sector P – Land Transportation & Warehousing, and Sector AA Fabricated Metal Products* as a guide. The applicable stormwater discharge permit is EPA General Permit Tracing Number NMR050013 MSGP 2021 [Triad National Security, LLC (Triad)]. Click here to view contents of the 2021 Multi-Sector General Permit.

This SWPPP applies to discharges of stormwater from the operational areas of the TA-60-0001 Heavy Equipment Shop 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 the TA-60-0001 Heavy Equipment Yard (HEY). The current MSGP expires at midnight on February 28, 2026.

1.0 FACILITY DESCRIPTION

1.1 Facility Information

Name of Facility: TA-60-0001 Heavy Equipment Shop		
Street: Intersection of Enewetak Drive and Maniac Road		
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 4212, Sector P, Subsector P1; and SIC Code 3499; Sector AA, Subsector AA1		
Estimated area of industrial activity at site exposed to stormwater: 8.4 acres		
Discharge Information		
Name(s) of surface water(s)/segment that receives stormwater from your facility: Sandia Canyon (Sigma Canyon to NPDES outfall 001)		
Does this facility discharge industrial stormwater directly into any segment of an "impaired water" (see definition in 2021 MSGP, Appendix A)? ☒Yes No		
Pollutants causing the impairment: Total recoverable Aluminum, PCB (Aroclors), and dissolved Copper.		
Pollutants causing the impairment (see above) that may be present in industrial stormwater discharges from this Facility: Aluminum and Copper		
Are any of your stormwater discharges subject to effluent limitation guidelines (ELGs) (2021 MSGP Table 1-1)? ☐Yes ☒No If Yes, which guidelines apply? Not applicable.		

1.2 Stormwater Pollution Prevention Team (PPT)

The Stormwater PPT for the TA-60-0001 HEY consists of operations and management personnel from the Utilities and Institutional Facilities (UI) Facilities Operations Division (FOD), operations and management personnel from the Logistics Division (LOG-DIV), the facility, a representative from Environmental Protection and Compliance-Compliance Program (EPC-CP), and a Deployed Environmental Professional (DEP). The EPC-CP representative is responsible for subject matter expertise to ensure Laboratory compliance under the NPDES permit regulations. The team members are selected on the basis of their familiarity with the activities at the facility and the potential impacts of those activities on stormwater runoff. The specific duties of individual team members of the PPT are listed in the table below.

Personnel Titles	Individual Responsibilities
EPC-CP, Deployed Environmental Professionals (Primary and Backup)	Responsible for the support and oversight 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

EPC-CP, Deployed Environmental Professional	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 and regularly communicates with facility and operations personnel and the PPT 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 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 of the facility and that they understand immediate action is required to correct the non-compliance.
FOD/Deputy FOD/ Manager/Representative: IF-Operations, Operations Managers (or designees)	Responsible for managing the maintenance and operation of all aspects of the yards, buildings and facilities listed within this Plan. These managers/representatives shall provide review and ensure coordination with core personnel and the PPT, as appropriate, when tenants within the IF FOD propose a new process, or new site or operation that may be subject to the MSGP. These managers/representatives are key to ensuring adequate communication and coordination of issues regarding implementation of the MSGP and this SWPPP. Deputy FOD certifies SWPPP and corrective actions.
LOG-DIV Manager/Representative: Operations Managers (or designees)	Responsible for managing the maintenance and operation of all aspects of the yards, buildings and facilities listed within this Plan. The Operations Manager shall provide review and ensure coordination with core personnel and the PPT, as appropriate, when tenants within the UI FOD propose a new process, or new site or operation that may be subject to the MSGP. The Operations Manager is key to ensuring adequate communication and coordination of issues regarding implementation of the MSGP and this Plan.
MSGP Program Lead:	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.

Managers/Superintendents: Heavy Equipment Shop Superintendent, LOG-HERG Fleet Manager, LOG-HERG Heavy Equipment Laborer Foreman, LOG-HERG	Responsible for day-to-day operations at the facility. The superintendent/manager/foreman, assist 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 superintendent/manager/foreman are key to ensuring adequate communication and coordination of issues regarding implementation of the MSGP and this Plan. The superintendent/manager/foreman also assist the DEP/EPC with SWPPP training and/or briefings, as requested. Responsible for ensuring corrective actions are implemented and completed.

1.3 Site Description

The primary operation of the TA-60-0001 HEY is to repair and maintain heavy equipment and government vehicles used at LANL. The boundary of the facility covers an estimated 8.4 acres on Enewetak Drive in Los Alamos, New Mexico. 63% of the facility consists of impervious surfaces. The site is located west of Sandia Canyon.

The HEY building consists of administrative offices, a parts/supply room, a taxi dispatch and vehicle transfer office. Heavy equipment and vehicles are stored and staged in adjacent parking lots to the east and west of the facility. The repair bays are located on the upper/south and lower/north portions of the building. The lower lot of the facility is used for various craft material storage and equipment part storage. There are also roll-off bins for tire, metal and wood recycle in this lot. Vehicle and heavy equipment parking is located west of the building.

Vehicle maintenance is performed inside the repair bays. Outdoor activities consist of material handling, vehicle and equipment staging, the transfer and storage of oil/used oil and other chemical products for vehicle maintenance and refueling. The upper lot of the facility contains various storage buildings, parking for vehicles and equipment awaiting repairs, ATVs, air compressors, containers, material racks, secondary containment units for oils, antifreeze, cleaners and a waste accumulation area. There are several satellite accumulation areas within and two used oil storage areas outside TA-60-0001. One used oil storage area and one New Mexico special waste storage area are outside. The refueling trucks for the laboratory are staged in the upper lot and are covered by a Spill Prevention Control and Countermeasure (SPCC) Plan (see Attachment 25).

There is a vehicle steam cleaning pad located east of the north bay that discharges directly to a trench drain. The trench drain is connected to an oil/water separator (OWS) that discharges to the Sanitary Wastewater System (SWWS).

Metal fabrication for vehicles takes place at the northwest repair bay of the facility. Sheet metal and other metal used for fabrication is stored in conex boxes outside the northwest bay and in the upper yard on the east side of building 60-0001.

Industrial activities and major structures at the facility are shown on the site map in Figure B-1. Detailed descriptions of the facility industrial activities are provided in Section 2.0.

Outfalls

There are five stormwater outfalls associated with this facility. These include outfalls 021, 022, 023, 024 & 025.

Outfalls 021 & 22

These outfalls are located on the east side of the site in the main drainage ditch between the upper and lower lots. The two outfalls receive drainage from the drop inlet east of the main building and the detention basin east of the building. These outfalls are associated with the following industrial activity areas: metal raw material storage, drum storage, product storage, vehicle maintenance, used oil storage, product oil storage, an oil filled transformer, and New Mexico special waste storage. Automated sampler, **MSGP02201** is located at Outfall 022. Outfall 021 is substantially identical to outfall 022.

Outfall 023

This outfall is substantially identical to outfall 022 and consists of a drop inlet and culvert located at the lower lot that discharges to a drainage ditch east of the facility. The outfall is associated with the metal recycle roll-off bin and the metal raw material storage area.

Outfall 024

This outfall is substantially identical to outfall 022 and consists of a concrete channel with three energy dissipators located on the northwest side of the building. The rundown drains to a bedrock lined ditch that runs east to Sandia Canyon. This outfall is associated with the covered metal storage and vehicle parking areas. The rundown drains the main front parking lot and the front of both lower bays, including the northwest bay area where metal fabrication takes place inside.

Outfall 025

This outfall is substantially identical to outfall 022 and consists of a culvert located northwest of the building with a culvert running under Maniac Road. The culvert discharges to a drainage that runs east to Sandia Canyon. This outfall is associated with the heavy equipment storage area.

1.4 General Location Map

A general location map for the facility can be found in Figure A. Figure B-1 contains the site maps for TA-60-0001 HEY. These maps (along with Figure B-2) identify all receiving waters associated with stormwater discharges from the facility. 100 percent of the site flows to Sandia Canyon. The canyon at this location is a perennial stream and eventually flows to the Rio Grande approximately 8.5 miles east of the site.

1.5 Site Map

The site maps are provided in Figure B-1 and illustrate the facility's industrial activities: including facility boundary, structures, impervious surfaces, industrial activity areas, spills, operational areas, drainage patterns, stormwater controls, monitoring locations, outfalls and nearby receiving streams.

- **Site boundaries and acreage**. The site covers approximately 8.4 acres.
- **Significant structures and impervious surfaces.** The site is 63% impervious, primarily due to structures and paved lots.
- **Direction of stormwater flow and site drainage.** Direction of flow is indicated with arrows.
- **Locations of structural stormwater control measures**.

- **Locations of all receiving waters.** Stormwater from this facility discharges to Sandia Canyon impaired waters. There is no TMDL for Sandia Canyon. A map of nearby receiving waters is provided as Figure B-2.
- **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**.
- This facility is not currently associated with a municipal separate storm sewer system (MS4).
- **Areas of designated critical habitat for endangered or threatened species.** There are no areas in the direct vicinity of the facility. However, a map for threatened and endangered species within LANL property is included as Figure B-3.
- There are no non-stormwater discharges at the facility (see certification in Attachment 3)
- Locations of the following activities where such activities are exposed to precipitation:
    - fueling stations (None, however; refueling trucks are kept on site.);
    - 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 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; and
    - locations and sources of run-on to the site.

2.0 POTENTIAL POLLUTANT SOURCES

Industrial activities that could potentially result in releases to the environment are summarized in Section 2.1 below.

In general, materials stored in outside locations at the TA-60-0001 HEY have secondary containment units, are stored in enclosed sheds or structures, or are covered with tarps. The trench drain on the east side of the lower shops discharges to an OWS, which prevents oil discharge to the environment. Micro-Blaze® and oil absorbent materials are kept on hand to clean up spills immediately should they occur. The primary industrial activities that could be exposed to stormwater (and associated pollutants) are provided below and in the site map listed in Figure B-1.

2.1 Potential Pollutants Associated with Industrial Activity

Upper Lot

Product Oil Storage Area
This area is located next to the oil fill transformer (southeast corner of the building). *Potential pollutants include product oil and heavy metals.*

Oil Filled Transformer
This transformer is located at the southeast corner of the building. *The potential pollutant is non-PCB transformer mineral oil.*

Used Oil Storage Areas
There are two used oil storage areas at the TA-60 HEY. These include a 500-gallon metal tank at the northeast side of the building, which serves the bottom shops; and a 500-gallon metal tank at the southeast side of the building, which serves the upper shops. Used oil is pumped from the shops into the tanks. Metal tanks have built in secondary containment. *Potential pollutants include used oil/oily water and heavy metals.*

Refueling Trucks, Heavy and Small Equipment
Refueling trucks and equipment parking and staging occurs in the upper east lot. Refueling trucks, heavy equipment and vehicles waiting for repair, small ATVs, and tires for recycle are parked/staged here. *Potential pollutants include leaks of petroleum products, hydraulic fluid, antifreeze, gasoline/fuels and heavy metals.*

Metal Raw Material Storage Area (Metal Parts for Heavy Equipment)
This area is located on the eastern edge of the upper storage lot and contains a metal roofed canopy storage area where metal racks with blades and other metal parts for use on heavy equipment are stored. *Potential pollutants include metal residuals.*

Filter Crusher
Located on the north and south sections of the building. Vehicle and heavy equipment repair and maintenance takes place within the bays. Oil recycling and oil filter crushing takes place at the lower north bay and upper south bay. Oil filters are crushed and placed into drums which are picked up on a regular basis by a subcontractor. *Potential pollutants include leaks of petroleum products, oils, hydraulic fluid, antifreeze, gasoline/fuels and heavy metals.*

Oil/Water Separator
The oil/water separator is located northeast of the building and is used to separate oil from water prior to discharge to SWWS. *Potential pollutant sources include sediment/solids, oil and heavy metals.*
Note: This system is not designed to treat or separate fuel from water.

Vehicle and Small Equipment Parking
Vehicle and small equipment parking occurs in the upper west lot. This area consists of parking for personally owned vehicles, government vehicles and small equipment such as portable lighting units, compressors and generators. General parking is located directly west of Building 60-0001 and parking for the Taxi service is located to the southwest of the building. *Potential pollutants include leaks of petroleum products, oils, hydraulic fluid, antifreeze, gasoline/fuels and heavy metals.*

Heavy Equipment Parking and Lower Repair Bay
The lower repair bay is located on the northwest section of the building and heavy equipment parking/staging is directly west of the bay on an unpaved area. *Potential pollutants include leaks of petroleum products, oils, hydraulic fluid, antifreeze, gasoline/fuels and heavy metals.*

Metal Fabrication Area and Parts Rack
The metals fabrication area is located on the northwest side of the lower repair bay. This area also holds a variety of metal parts needed for heavy equipment. *The potential pollutant is heavy metals.*

Lower Lot

Miscellaneous Heavy Equipment Parts and Metal Storage
Miscellaneous heavy equipment parts are stored throughout the lower east lot. Storage consists of heavy equipment buckets, blades, metal associated with crane operations, and various other parts. *Potential pollutants include heavy metals, hydraulic oil, and machine oil residuals.*

TA-60-0127 Paint Storage Shed

This storage shed is used by painting crews to store various paints. Paint is removed and returned to the shed as needed for specific jobs. The paint is typically loaded and unloaded from a flat-bed truck or work truck. *Potential pollutants include paints, lacquers, thinners, and caulking/grouting products.*

Metal Roll-Off Bin for Recycle

The metal roll-off bin for recycle is located in the northwest corner of the lower east lot. A 30 cubic yard roll-off recycle bin is used to store scrap metal until the bin is picked up by the LANL Material Recycling Facility (MRF). The bin is typically emptied on a weekly basis. *Potential pollutants include heavy metals and machine oil residuals.*

Miscellaneous Craft Storage Sheds

Several storage sheds are in the lower east lot and are used to store a variety of materials for craft workers. TA-60-0129 is used to store spill clean-up material and small equipment parts. *Potential pollutants include roofing material, debris, heavy metals, etc.*

Roll-Off Bin for Tires

This roll-off bin is located in the northern portion of the lower lot and is used to store tires prior to off-site disposition. *The potential pollutant is heavy metals.*

Solid Waste Management Units (SWMUs)/Consent Order Sites and Areas of Concern (AOC)

Three SWMUs were located within the fenced boundary of the facility. AOCs 60-001(a), 60-001(b) and 60-003 have been approved for No Further Action by the New Mexico Environment Department (NMED) and have been removed from the LANL/DOE RCRA permit.

The remaining SWMU, 60-007(b), is covered by the NPDES Stormwater Individual Permit (IP) # NM0030759. SWMU 60-007(b) is a storm drainage ditch at TA-60 that starts approximately 600 feet from a paved area directly north of the motor pool building (building 60-1) and extends to the bottom of Sandia Canyon. Two parking lots located east of building 60-1 drain to a ditch that eventually joins the SWMU 60-007(b) drainage ditch. Other former sources of potential contamination to the ditch are a steam-cleaning pad, a used-oil storage tank, and an oil/water separator. In addition, equipment that used PCB-containing oil was stored on an asphalt area east of building 60-1. The areas of the ditch visibly affected by these sources were remediated in 1986 by removing stained soil down to bedrock. Decision-level data for SWMU 60-007(b) consists of 20 samples collected from 12 locations in 2009. The 2015 supplemental investigation report concluded that the nature and extent of contamination have been defined and no further sampling for extent is warranted. This site does not pose a potential unacceptable risk or dose under the industrial, construction worker, or residential scenarios and poses no unacceptable ecological risk.

2.2 Spills and Leaks

Spills and leaks that occurred after June 25, 2021, the active date of the 2021 MSGP, are summarized below. Future Spills and leaks will be documented as corrective actions and tracked.

Date	Description	Corrective Action Description	Outfall(s) Affected
8/23/21	While refueling a LANL truck in the designated refueling area approx. 1 cup of fuel splashed onto the asphalt (this has occurred previously as well).	Absorbent was disposed of, and Micro-Blaze® was applied. Crews will utilize spill pads or other controls more pro-actively instead of responding to fuel spillage on asphalt.	None
9/17/21	During efforts to calibrate deicer sprayers on ATVs an abnormal amount drained onto pavement and soil in the lower east yard at the heavy equipment shop.	Sweep the pavement and when calibrating the deicer sprayers take efforts to minimize spills of the material. The material was swept with the sweeper truck at 2:30 pm 9/17/2021	None
10/15/21	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 - nontoxic) was full and it leaked approximately 1 pint or less of fluid onto the pavement.	Spill was cleaned to the extent practicable and treated with micro blaze.	None
11/3/21	A LANL sanitary truck that was parked at the Heavy Equipment yard was started up which pressurized the the Diesel Exhaust Fluid (DEF) system. Once pressurized approx. 1.5 gallons leaked out of a failed gasket on the DEF tank to the asphalt.	Absorbents were applied by facility personnel. The gasket and housing on the DEF tank was replaced so that it wouldn't leak again. The release did not reach any storm drains and was confined to pavement. Micro blaze was also applied.	None
12/9/21	At the NE corner of TA-60-0001, there is an area on the concrete apron that has deteriorated and has formed a depression. Water was present in the depression that had an oil sheen on it.	Oil absorbent pads were applied to the sheen at 2:40 pm. Sheen was verified removed morning of 12/10/2021. An existing FSR is in place to fix the concrete and install a new berm.	None
12/9/21	On the east side of TA-60-0001, outside of the battery shed, three batteries were being stored outside of the shed and were leaking.	The batteries were placed in the shed, materials used to absorb the spill were disposed of and the acid was neutralized.	None
2/22/22	Due to snow removal activities, there is sediment and base course in the asphalt swale at SIDP 024 near the NW corner of TA-60-0001. The MetalLox® wattle 6000403200094 in the swale is partially buried as well.	Clean out the swale and return the wattle to a functional condition. On 2/22/22 at 2:30 pm laborers cleaned out the material in the swale and replaced the wattle with a new one.	SIDP 024
2/22/22	There was spilled fuel and absorbent material on the asphalt near the fueling truck.	The absorbents were cleaned up and the area was Micro-Blazed®. Mats with absorbent pads under will be used again to help prevent fuel contact onto asphalt.	None
3/22/22	AT the southeast corner of TA-60-0001 HEY a roads and grounds driver / operator inadvertently activated the Commercial Deicer in the back of the truck while waiting to get the truck fueled. Approximately 25 to 30 gallons of CRYOTECH CF7 potassium acetate deicer was spilled before the deicer could be shut off. Per the SDS, the mix is 50% water and 50% Potassium Acetate. The mixture did flow east towards a Petrol Barrier Box. The asphalt berm stopped a majority of the mixture but a small area around the	Logistics/R&G cleaned and swept the paved area, cleaned around the Petrol Barrier Box, and replaced both pads on top of the box.	None

	box was wet. Two white filters were also wet but there were no signs the mixture made it past the box (outfall was dry).		
4/22/22	EPC-CP was notified of a diesel spill on base course in the parking lot west of TA-60-0001 HEY. HAZMAT also responded to the spill and delegated the spill clean up to Roads and Grounds. The spill clean-up generated a 55-gallon drum of base course material that will be managed as N.M. Special Waste.	EPC-CP was notified of a diesel spill on base course in the parking lot west of TA-60-0001 HEY. HAZMAT also responded to the spill and delegated the spill clean up to Roads and Grounds. The spill clean-up generated a 55-gallon drum of base course material that will be managed as N.M. Special Waste.	None
6/9/22	On 6/2/2022 an excavator with a masticator attachment was performing work along SR 4. The masticator attachment failed and released hydraulic fluid. The spill was contained, and the equipment was transferred to the Heavy Equipment Yard and placed on the concrete pad that drains to the oil water separator. The leaking attachment was wrapped with plastic and placed on a secondary containment pan and had oil absorbents placed. The oil has since leaked through the plastic and past some of the absorbent controls and onto a puddle of water.	Clean up the saturated absorbents and replace/maintain absorbent controls to the extent practicable to minimize oil discharge to the oil water separator. Clean oil sheen on water with oil absorbent pad and if possible, remove stained soil where the large pothole is on the pad. As of 6/10/22 3:00 pm this has been completed and it will continue to be monitored and have controls replaced as necessary.	None
6/16/22	There was a large fire truck on stands being worked on outside the northwest corner of TA-60-0001. There were some drips and spills of oil on the concrete (~less than half a cup) underneath with very little spill controls being used.	Additional spill pads were added during the work. The work on the truck was completed and before the truck was lowered to the ground the oil was cleaned up and had Micro-Blaze® applied.	None
6/24/22	EPC-CP responded to a dirt area on the west side of TA-60-0001 for a hydraulic spill (approximately one gallon). An unknown piece of equipment was parked on the pavement, just east of the dirt, and sprayed hydraulic fluid on the soil and a parked tractor.	Roads and grounds personnel containerized approximately an inch of topsoil that appeared to be stained. The tractor was also wiped off using absorbent pads. As a precautionary measure, sandbags were placed above the spill area and absorbent socks below the spill area. EPC followed up on 6/27/2022 after weekend rain events and there was no visible sheen.	None
7/20/22	EPC-CP was notified of a diesel spill (approximately one quart) on the west side of TA-60-0001. Personnel were cleaning a 2022 CAT 450 Backhoe and moving it from the inside bay to the outside (west) when the fuel filter started leaking diesel. Diesel was spilled on asphalt and concrete.	Personnel used absorbents and Micro-Blaze® to clean the spill. The equipment was secured and repaired.	None
8/2/22	On the west side of TA-60-0001 Heavy Equipment Shop personnel noticed a spill under a 2021 WANCO Portable Diesel Light Tower. It appears the diesel leak was from the fuel pump and had been ongoing for many days before it was discovered. The diesel tank has a capacity of 30 gallons and the tank was full and it was 3/4 full at	The light tower was moved to a secure location. Roads and Grounds personnel containerized the soil and placed new soil.	None

	discovery. Approx. 7.5 gallons, at most, leaked out.		
8/9/22	EPC-CP was notified of a diesel spill (approximately 0.5 gallons) on the west side of TA-60-0001. Personnel noticed a spill under a John Deer 3039 R Tractor. It appears the leak was from the fuel filter. The tractor was moved to the east side of TA-60-0001 on concrete and had a drip pan placed under the fuel filter awaiting repair.	Roads and Grounds personnel obtained an emergency EXID and containerized the soil (five 30-gallon drums) and then placed clean back fill in the excavation.	None
9/6/22	Approximately 1 gallon of hydraulic fluid leaked from a LANL auger truck onto asphalt. The truck was brought into the heavy equipment area on Friday (9/2/2022) with the report the equipment was leaking. Personnel were advised that the equipment only leaked when operated.	The truck was moved to the east side of TA-60-0001 and a drip pan / pads were placed under the vehicle. Roads & Grounds used absorbents and Micro-Blaze® on the affected asphalt.	None
9/29/22	A Barko masticator was parked on the bay above the trench that drains to the oil water separator (OWS). The machine was sprayed down, but greasy material was splashed over a ~30 sq. ft. area on the asphalt outside of the bay, down gradient of the trench drain.	Clean up/sweep as much of the material as possible and apply Micro-Blaze®. Make an attempt to keep sprayed material on the pad above the trench drain to the OWS, or use some type of splash pad or secondary containment. Clean up and application of Micro-Blaze® was completed 9/30/22.	None
9/29/22	A mechanic was performing maintenance on a LANL man lift outside one of the east bays at 60-1 when approximately 1/2 quart of hydraulic oil spilled on the concrete. Secondary containment was initially used to capture most of the oil, but this was unexpected.	Clean up/absorb the oil and apply Micro-Blaze®. This was completed 9/30/22.	None
11/8/22	EPC-CP responded to TA-60-0001 for a hydraulic spill that occurred on asphalt. Upon arrival, a gasoline spill had also just occurred on asphalt. Approximately one quart of hydraulic fluid spilled from a 2018 Freightliner Dump Truck (Govt. G820318V) leaked from a failed piece of equipment. Approximately one gallon of gasoline spilled from a 2016 International Fueling Truck (Govt. G820134S) from a failed fueling hose.	The driver of the fueling truck noticed the hydraulic fluid spill and put absorbents under the truck. Roads & Grounds secured the leaking equipment, wiped the truck down before it was relocated in a bay at the shops, used absorbents, and applied Micro-Blaze® to the affected areas. Personnel at heavy equipment replaced the hose nozzle that failed during refueling on the gasoline spill. Roads & Grounds used absorbents and applied Micro-Blaze® to the affected areas.	None
11/21/22	One of the refueling trucks (E304640) was leaking fuel from the Kamvalok® coupler and a nozzle.	A spill pan and absorbents were placed under the leak and leaking pieces were wrapped. Micro-Blaze® was applied. The leaks need to be repaired. The leaks were secured since discovery and final repairs were made by an off-site vendor on 11/29/22.	None
12/14/22	It appears that hydraulic oil is leaking from Toyota forklift #2 by the front tines onto asphalt.	Tines were raised and stained asphalt was cleaned with Floorsorb then Micro-Blazed®. Absorbent pads were placed under the affected area until the unit is salvaged.	None

12/21/22	EPC-CP was notified of an antifreeze spill at the TA-60 Logistics taxi parking area. Approximately one pint of antifreeze leaked from a Ford passenger bus onto asphalt.	Logistics personnel secured the vehicle and brought it into the shop for repairs. The spill was cleaned up.	None
02/21/23	A spill from an unknown source of approximately 1 or 2 pints of oil was reported on the asphalt west of TA-60-0001. During the investigation it was noted that a LANL mobile generator was staged on a sloped area and dripping fuel onto soil up gradient of the paved area and both the oil and the fuel was commingling with with snow melt water. Approximately 2 or 3 gallons of fuel may have been released from the cabinet inside the generator where fuel was pooled under the engine.	Roads and Grounds and EPC deployed absorbent materials. A Hazmat team also responded and applied more robust absorbent materials as the snow melt increased. The facility moved the snow pile from the area to decrease runoff. Roads and grounds also containerized a thin top layer of contaminated soil. The mobile generator was moved indoors to the shop after the fuel was absorbed inside the cabinet and was no longer leaking out fuel. The area was cordoned off where water was pooling and running with sheen and another evaluation will be conducted on 2/22/23 to determine if oil and fuel sheen containment to the site was functional and if controls need replacement (new precipitation is expected). Roads and grounds will clean up any further contaminated soil as conditions permit and emergency excavation permit is in place. On 2/22/23 HAZMAT evaluated their controls and EPC deployed additional absorbent controls and applied micro blaze. It was noted some runoff with sheen entered outfall 024. Roads and grounds containerized two 55 gal drums of contaminated soil and covered the soil area where fuel leaked with plastic. Site will be re-evaluated again 2/23/23. on 2/23/23 EPC-CP, HAZMAT, IRC, Road & Grounds, and WMC returned to evaluate the site. HAZMAT put up additional caution tape, replaced several absorbents, and cleaned up the area. Roads & Grounds will be back on site 2/24/23 at 10:00 am to containerize the additional soil from the spill area and HAZMAT will reevaluate. There was no sheen identified in the drainage below outfall 024, EPC did a thorough investigation. On 2/28/23 after a period of dry days additional micro blaze was applied on asphalt and additional soil containerized. Clean absorbent controls were left in place as a precaution.	024
04/05/2023	Approximately two quarts of hydraulic oil leaked from the packer blade area in a 2020 Peterbilt Garbage Truck. A hydraulic line was repaired inside the shop and the truck was moved to the bay outside and tested. Some unseen residual oil left over from the malfunction spilled onto the concrete.	Shop personnel applied absorbents to the spill, cleaned it up and applied microblaze.	None
04/24/23	During mobile refueling approximately 1/2 cup of fuel spilled onto the asphalt. There	Fuel was absorbed and micro blaze applied. Fueling operator was instructed by the	None

	were fuel mats adjacent to the fueling location that absorb fuel in the event of drips and overflows but they weren't placed under the nozzle during active fueling.	superintendent to fuel over the absorbent mats provided.	
04/24/23	The fueling truck (E29904) has an active leak that is apparently leaking transmission fluid. Some fluid stained the asphalt under the truck.	Micro blaze was applied and a drip pan used. Truck is going in for repairs.	None
06/09/23	EPC-CP responded to a used motor oil spill on concrete on the SE side of bldg. 60-0001 at the Heavy Equipment Shop (HES). Approximately 2 gallons of used oil was spilled during a transfer from inside the building to the used motor oil tank outside the building. The line was temporarily disconnected for placement of a transportainer. The spill stayed within the footprint of the transportainer just outside the building.	Absorbents were placed around the perimeter of the transportainer. The transportainer was moved with a fork lift and the spill was cleaned up and micro blaze was applied.	None
08/29/2023	Subcontracted HVAC project at TA-60-1 is staging equipment and material in the lower east yard. The project has a concrete washout pit with lumber and plastic and there is concrete outside of it on the dirt that needs to be cleaned up. The plastic is falling down as well.	Clean up the hardened concrete on the soil outside of the concrete washout pit and ensure the liner for the washout is functional if it will continue to be used. This was completed 8/30/23	None
11/09/23	Approximately 10 gallons of potassium acetate (road pre-treatment) was discharged from an unknown source and ran through base course in the lower east yard. When this product is not used as intended and is discharged in this manner it is a spill.	The spill area was cleaned up to the extent practicable. The product did not leave the facility area or enter a storm drain.	None
11/09/23	Outside the east bays of TA-60-1 there are several small oil spills that need cleaning and micro-blazing	Absorb what can be absorbed and apply micro blaze. This was completed 11/9/23.	None
12/11/23	A subcontractor for HVAC project at TA-60-1 is using an outdoor staging area in the lower east yard east of TA-60-1. They constructed a makeshift concrete washout with lumber and plastic that isn't functioning properly. They recently added more concrete and it couldn't be contained in the washout and spilled out.	Clean up the concrete outside of the concrete washout. Also fix the concrete washout so it can contain all the concrete and any stormwater accumulation. This was accomplished on 12/12/23 at 1130am. The subcontractor is planning on removing all the concrete the week of Dec 18th.	None
12/12/23	EPC-CP responded to the Taxi parking lot, west of TA-60-0004, for a transmission fluid release on asphalt. Approximately two cups of transmission fluid leaked from a Freight liner taxi bus while parked in the lot.	Heavy equipment took the bus in for repairs and Roads and Grounds applied absorbents / micro-blaze to the affected areas.	None
12/12/23	EPC-CP was notified of a diesel release on the west side of 60-0001 from a forklift. Approximately 1 gallon of diesel was spilled onto compacted soil/base course.	HAZMAT responded and removed approximately 10 gallons of impacted soil. An additional 10 gallons of material was removed by Roads and Grounds personnel to complete the cleanup. The forklift was	None

		moved over to Heavy Equipment for inspection and repair.	
1/24/24	January 24, 2024, at approximately 1:30PM, small oil release (approximately 1 cup) was discovered on west side of TA-60-0001 (parking area outside main building entrance). Vehicle was no longer present at time of discovery.	Liquid oil was cleaned up using absorbent pad then areas were micro-blazed.	None
1/4/24	Alethea Banar (ECP-CP) observed a slight oil sheen on discharge water from a snow storm entering Outfall 025.	Gravel bags were placed to impede the flow of water at the outfall. Facility personnel used absorbent pads/socks to remove floating oil. Personnel walked the yard and inspected vehicles/equipment but the source of oil could not be ascertained.	None
5/28/24	Fire water and suppression was foam released during a fire truck cleaning at 60-0001 Heavy Equipment Shop. Approximately 50 gallons of Alpha-olefin Sulfonate Solution (Non-hazardous) (CAS-No. Trade Secret); 2,4-Pentanediol, 2-methyl- (CAS-No. 107-41-5 10 ¿ 30); and Water (CAS-No. 7732-18-5) was released to asphalt. Approximately 30 gallons entered into an Oil/Water Separator that leads to SWWS.	Building personnel applied de-foamer and swept the remaining water into the separator trough.	None
6/17/24	A private vehicle appears to have damaged an oil pan driving through a rut/ditch. Oil leaked onto the ground as the car exited the parking lot onto Maniac then turned right onto Enetewak. Oil leaked for approximately 50 yards total (10 yards in parking lot)	Roads and grounds responded and removed oil-stained dirt; applied kitty litter to asphalt to remove and remaining oil; and micro-blazed entire spill area.	None
9/26/24	Vehicle hoists stored in lower yard leaking hydraulic oil onto ground.	Personnel will verify that oil has been drained from hoists. If not, drain hydraulic oil and/or provide containment under leaking hoist parts. Clean spill and dispose of waste. Hoist were placed inside roll off bins and will be removed from site. The Impacted soil from the leaks was excavate and removed as waste. 10/9/2024	None
10/9/24	During site inspection it was discovered that refueling truck E304640 was leaking oil into asphalt. Absorbent pads were placed at site of the leaks to limit extent of release.	Operational staff was notified of the equipment and refueling truck was removed from the yard for service. Absorbents pads were removed, and micro blaze was applied to impacted area.	None
10/22/24	It was observed that a forklift parked on the east side of TA-60-0001 was leaking hydraulic fluid on concrete.	TA-60-0001 operational staff was notified of leaking equipment. Staff then contained and cleaned released material, and equipment was moved inside for repairs. Unplanned Release form was filled out and sent to EPC-CP	None
12/17/24	EPC-CP was notified via spills pager about a potassium acetate release at TA-60-0001 Heavy Equipment Yard (HEY). Potassium acetate is used by TA-60-0001 staff for	Upon discovery of leaking TA-60-0001 operational staff turned the valves into the closed position to prevent any additional discharge. Micro-Blaze was applied to	None

	deicing purposes during the winter. HEY staff reported that approximately 2 gallons released from a tank that is mounted on the bed of a onsite utility terrain vehicle. The released was caused by valve being left in a open position. Upon discovery HEY staff closed the valve to prevent additional discharge. HEY staff then applied Micro-Blaze to effected area. IF DEP confirmed that no potassium acetate solution had reached any drains or vegetation.	affected areas. Area will also be monitored for any future precipitate from the potassium acetate. If any precipitate is found, staff will sweep and dispose of it	
12/19/24	During annual routine facility inspection with MSGP program personnel "Asphalt Distributor E01566T" was found releasing fluid onto dirt.	TA-60-0001 Operational staff was notified of leaking equipment. Operation staff will reach out to LOG-HERG staff to remove equipment. Impacted soil will be excavated and disposed of.	None

Areas on Site Where Potential Spills/Leaks Could Occur

LOCATION	OUTFALLS (see site map)
Upper Lot (See Section 2.1 for specific industrial activity areas)	021, 022, 024, 025
Lower Lot (See Section 2.1 for specific industrial activity areas)	023

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-2109, *MSGP Corrective Actions*.

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 performs maintenance and repairs on heavy equipment and vehicles, there are spill protection clean-up materials readily available on site. Appropriate response measures for a spill or release of hazardous materials are followed when addressing spills. The specific spill response and cleanup procedures depend on the nature and amount of the spilled material. Specific spill response and reporting procedures for LANL are listed in Section 3.1.4 of this SWPPP.

2.3 Unauthorized Non-Stormwater Discharges

There are no NPDES permitted non-stormwater discharges or unpermitted outfalls associated with the facility. Potential sources of authorized non-stormwater discharges at the facility include the testing of fire hydrants in the area. All wastewater within the building discharges to the SWWS.

The “Non-Stormwater Discharge Assessment and Certification” is located in Attachment 3. This form certifies that all stormwater outfalls have been evaluated for the presence of non-stormwater discharges. The form is updated whenever a change in possible non-stormwater discharge is determined**.**

2.4 Salt Storage

No salt storage or piles containing salt are present at the facility. There is no salt storage anticipated for this facility as part of an industrial activity.

2.5 Historical Data Summary

Permitted Facility: TA-60-0001 Heavy Equipment Yard

Calendar Year 2024

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.
	Average of four monitoring values did not exceed benchmark; quarterly monitoring discontinued for the duration of the permit.	Impaired water constituent was not detected in storm water discharge; annual monitoring discontinued for the duration of the permit.	Baseline	AIM Level 1	AIM Level 2	AIM Level 3		
022	—	Total Aroclor	—	Zn	NO3+NO2-N	Al	COD, TSS, pH	Al

AIM = Additional Implementation Measures
Al = Aluminum
NO3+NO2-N = Nitrate plus Nitrite Nitrogen
Zn = Zinc
COD = Chemical Oxygen Demand
TSS = Total Suspended Solids
pH = Potential Hydrogen (Acidity or Alkalinity)

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.

Proper material management and storage minimizes exposure of potential pollutants at the facility to precipitation. Containers that could be susceptible to spillage or leakage are plainly labeled (e.g., "Used Oil," "Spent Solvents," etc.). Vehicles or Heavy Equipment received for repair or maintenance at the shop are all inspected upon receipt to determine whether they are leaking. Vehicles or Heavy equipment that is leaking is moved inside a bay for repair or a drip pan is placed under it, monitored, and emptied once full, prior to a storm event, or when equipment is no longer leaking. Heavy equipment repair and maintenance is performed inside the repair bays. Most industrial operations are performed indoors, and materials are stored indoors or outdoors in enclosed structures. Adequate secondary containment is provided for outdoor storage areas containing potentially hazardous materials. BMPs are installed at all outfalls to manage stormwater runoff and sediments.

3.1 Non-Numeric Technology-Based Effluent Limits

Part 8 of the 2021 MSGP identifies sector-specific non-numeric technology-based effluent limits for **Sector P – Land Transportation and Warehousing** and **Sector AA – Fabricated Metal Products**, in addition to the general non-numeric technology-based effluent limits outlined in this section. The facility must comply with requirements associated with the primary industrial activities described in Section 1.3 of this SWPPP and any co-located industrial activities as defined in Appendix D of the 2021 MSGP. The sector specific requirements only apply to those areas of the facility where the sector-specific activities occur.

The following sector-specific non-numeric effluent limits are addressed at the TA-60-0001 HEY and are listed by sector.

Sector P

Vehicle and Equipment Storage Areas
See Sections 3.1.1 – 3.1.6 and 3.1.8 for specific controls in these areas.

Fueling Areas (Refueling)
Per the SPCC Plan in Attachment 25, refueling will only be conducted at designated locations. If refueling occurs at an undesignated location, the location will be inspected for adjacent storm drains and ditches prior to dispensing. Temporary BMPs will be installed if required. If temporary BMPs are specified for a location, fueling will not occur unless the temporary BMP has been installed by the facility or refueling team. Refueling will not occur during precipitation events in areas exposed to stormwater. Vehicles will only be filled until the dispensing nozzle shutoff is activated. In addition, emergency spill absorbent materials are located on each truck in service for immediate use, if needed.

Material Storage Areas
See Sections 3.1.1 – 3.1.6 for specific controls in these areas.

Vehicle and Equipment Cleaning Area
Vehicles or Heavy Equipment are steam cleaned on a concrete pad with a berm that drains to an oil/water separator. Water from the OWS drains to SWWS.

Vehicle and Equipment Maintenance
All vehicle and heavy equipment maintenance is conducted inside a bay within TA-60-0001.

Employee Training
See Section 4.5 for employee training requirements. In addition, per the SPCC Plan contained in Attachment 25, refueling personnel are trained to respond to an incidental spill. They are also trained to identify adjacent storm drains or other conveyances and to choose and install temporary BMPs if needed.

Sector AA

Raw Steel Handling Storage
See Sections 3.1.1 – 3.1.6 for specific controls in these areas.

Paints and Painting Equipment
All painting equipment is kept inside the shop bays and is typically limited to spray paints, which are kept inside flammable cabinets.

Metal Fabricating Areas
See Sections 3.1.1 – 3.1.6 for specific controls in these areas.

Storage Areas for Raw Metal
See Sections 3.1.1 – 3.1.6 for specific controls in these areas.

Metal Working Fluid Storage Areas
Metal working fluid is kept inside the shop bays, typically inside flammable cabinets or appropriate chemical storage areas.

Cleaners and Rinse Water
Cleaners are kept inside of the shop bays in flammable cabinets or appropriate chemical storage areas. Rinse waters are not typically used inside the shop. However, the floor drains inside the shop are closed and do not discharge to the sanitary sewer system or outside storm drains.

Lubricating Oil and Hydraulic Fluid Operations
All operations occur inside the shop bays.

Chemical Storage Areas
All chemicals are used inside the shop and stored in flammable cabinets or appropriate areas. Chemical items are kept labeled and are inventoried annually through LANL's Chemlog (barcode) tracking system.

Spills and Leaks
See Section 3.1.4 for specific spill prevention and response procedures.

3.1.1 Minimize Exposure

Covered and Enclosed Structures
Industrial materials are kept inside the Heavy Equipment shop or enclosed storage sheds and conex boxes when possible.

Spill Control
Industrial areas are frequently inspected for leaks and checked during monthly inspections. Oil absorbent and Micro-Blaze® are available in the Heavy Equipment Shop for immediate containment and clean-up if needed. Refueling trucks are equipped with spill kits.

Oil Water Separator
The OWS separates oil residues from the east repair bays, the bulk storage units, and vehicle washing area at the northeast section of the building. The OWS drains separated water to SWWS. OWS preventive maintenance (PM) procedures are described in Section 3.1.3 of this SWPPP. The OWS operations and maintenance manual, manufacturer's specification and drawings are included in Attachment 24.

Petro Barriers
These barriers are installed at the grated storm drains at the southeastern boundary of the upper east lot. The barriers filter out oil residues from the upper east lot before stormwater is discharged to the outfalls below. PM procedures for the Petro Barriers are described in Section 3.1.3 of this SWPPP.

Secondary Containment Units
Used oil, bulk oil and product (i.e., antifreeze, diesel exhaust fluid, window washing fluid) storage areas are kept in secondary containment units to minimize releases should a spill or leak occur.

Metal Storage
Sheet metal for fabrication, metal piping and other fabrication materials are kept in on-site conex boxes. Raw metal is generally not stored outside but if outside storage is needed temporarily tarps are used to cover the metal.

Covered Trash Dumpsters and Recycle Roll-Off Bin
Trash dumpsters and the metal recycle roll-off bin located at the facility are kept closed or covered when not in use and are emptied on a regular basis. The roll-off bin is emptied when it is 3/4 full to keep from damaging the bin or cover. Dumpsters are kept in good condition and are repaired or replaced if needed by Roads and Grounds.

3.1.2 Good Housekeeping

Good housekeeping practices specifically applicable to the prevention of stormwater contamination are described below.

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 metal storage areas are inspected to ensure all piping and metal raw materials are covered or stored inside buildings, sheds or conex boxes. 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, is inspected for floatable debris, garbage, waste and all other potential pollutants. All dumpsters and roll-off bins are inspected to ensure they are closed.

Per Part 2.1.2.2 of the 2021 MSGP, the following actions will be implemented to ensure good housekeeping.

- Sweep or vacuum at regular intervals or, alternatively, wash down the area and collect and/or treat, and properly dispose of the wash-down water.
- Store material 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). Consistent with Part 1.2.2, the permit does not authorize dry weather discharges from dumpsters or roll off boxes.
- Minimize the potential for waste, garbage and floatable debris to be discharged by keeping exposed areas free of such materials, or by intercepting them before they are discharged.

3.1.3 Maintenance

Control measures at the facility are kept in effective operating condition by the implementation of scheduled PM, 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, corrective action is taken in accordance with the timelines specified in the *Corrective Action and Deadlines* requirements of Section 6.0 of this SWPPP. If maintenance is needed in accordance with the PM schedule provided below, and/or in accordance with the operations and maintenance manual identified in Attachment 24, it is documented in the Scheduled Maintenance Log provided in Attachment 10.

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. All reasonable steps are taken immediately to address any identified condition requiring corrective action. The condition requiring corrective action will 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 the 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 arrangements (i.e., scheduling) for a new stormwater control measure (SCM) to be installed. 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.

Metal filtering wattles are replaced every 6 months or sooner if needed. Outfall culverts and drainages (including rock check dams and gabions) are inspected monthly and after heavy rain events and are cleaned out monthly or sooner if needed. Torn gravel bags at outfall areas are replaced immediately after discovery. Lot sweeping is performed monthly with a vacuum sweeper. In the event the vacuum sweeper is down for repair, sweeping will occur as soon as equipment is functional and able to be scheduled.

Trench Drain and Envirologix HQB OWS PM:

- The trench drain connected to the OWS is inspected weekly by HEY personnel.
- The trench drain is pumped and cleaned out once it reaches half of its holding capacity.
- Jet-rodding of the OWS inlet pipe is performed if the inlet is clogged.
- A subcontractor pumps out oily water from the OWS once a month.

- A new contract has been issued for sludge removal from the OWS on a semi-annual schedule. The OWS operations and maintenance manual is provided in Attachment 24 of this SWPPP.

Petro Barriers PM:

- Petro Barriers are inspected monthly.
- Filters are periodically cleaned when clogged with debris and replaced every 6 months.
- Media is replaced per manufacturer's specifications or sooner if a malfunction is observed.

All of the maintenance listed above is documented in the Scheduled Maintenance Log provided in Attachment 10.

3.1.4 Spill Prevention and Response

Spills, leaks, or releases are minimized and prevented by the application of good housekeeping procedures, BMPs, and engineering/administrative controls. Containers that could be susceptible to spillage or leakage are plainly labeled (e.g., "Used Oil," "Spent Solvents," etc.) to encourage proper handling and facilitate rapid response if spills or leaks from these containers should occur. Spill cleanup materials are located inside TA-60-0001 and spill kits are available on the refueling trucks and are readily accessible to facility personnel in the event of a spill or leak. The refuelers fuel vehicles over a fuel spill mat to prevent drips from hitting the pavement.

In general, the approach to spill cleanup is to secure the spill area and contact the Heavy Equipment Shop Superintendent and/or the Emergency Management Division-Emergency Response (EM-RESP) Team (if necessary). For incidental releases, Micro-Blaze® or dry absorbents are used and the contaminated absorbents from spill clean-up are containerized and disposed of properly off-site.

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 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 NMED. EM-RESP, 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-0903, *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*, Unplanned releases,* can be found in Attachment 22 of this SWPPP.

3.1.5 Erosion and Sediment Control

60% of the outside surface area associated with the facility, contains structures or is paved with asphalt or concrete; therefore, there is some potential for sediment transport. Stabilization and sediment retention features are installed in flow areas and BMPs are installed at outfalls to function as flow dissipation devices, which minimize the potential for erosion at facility discharge points.

Stabilized Drainage Channels at Outfalls
The primary drainage channel for Outfall 022 and 021 is stabilized with riprap and gabions to prevent erosion and minimize sedimentation in the channel. Outfall 023 is a grated storm drain that discharges to a corrugated metal culvert and rock-lined channel at the eastern facility boundary. Outfall 024 consists of a concrete channel with three energy dissipators within the channel.

Gravel Bags/Eco-Bloks
Gravel bags or Eco-Bloks are used at outfall inlets and other areas to minimize sedimentation to outfalls and direct stormwater for appropriate drainage.

3.1.6 Management of Runoff

The majority of stormwater runoff from outdoor industrial areas at the facility is captured by one of the 5 outfalls and associated drainage areas. The outfalls typically consist of stabilized drainage channels or grated storm drains that discharge to culverts (see Section 1.3). Other specific run off controls are listed below.

Spilltration® HardyChar Heavy Metal Filter Dikes (Wattles)
These wattles are used to filter significantly reduce turbidity, TSS, heavy metals in stormwater runoff. There are currently wattles located before discharge points at Outfall 021, 022, and within the rip rap swale leading to 022.

HuskyGuard Above-Drain Stormwater Filter w/ Husky Stormwater Oil & Sediment Filter DamSock
The above drain stormwater filter Is used to prevent oil and sediment from entering stormwater drain. In addition filter dam socks are used in conjunction to augment the effectiveness of above drain stormwater filter by limiting the pollutants reaching the stormwater drain. Controls were placed at Outfall 23.

Gravel Bags/Eco-Bloks
The gravel bags or Eco-Bloks function as flow dissipation devices for Outfalls 023, and 024. They also minimize sediment transport in runoff and direct runoff to stabilized channels.

Asphalt Curb/Berm
Asphalt curb/berm is used to direct runoff to designated drainages and outfalls.

Secondary Containment Units
Used oil, bulk oil and product (i.e., antifreeze, diesel exhaust fluid, window washing fluid) storage areas are kept in secondary containment units to minimize releases should a spill or leak occur.

Sediment Retention Basins

- A basin is located at the northeast edge of the upper east lot. The basin is constructed of riprap and is used to allow sediments to settle out of stormwater before discharge to Outfall 022.

- A basin was installed in 2020 at the north end (inlet side) of the rip rap channel that separates the upper and lower yards and discharges to Outfalls 021 and 022.
- In April 2023 a small basin was constructed in the middle of the east perimeter of upper east lot that discharges to a rundown up gradient of the swale that directs flow to Outfall 022.

Gabions
Several gabion baskets are installed within the rip rap drainage leading to Outfalls 021 and 022 and serve as check dam structures and stabilization.

Petro Barriers
These barriers are installed in the grated storm drains at the southeastern section of the upper east lot. The barriers contain oil absorbing media that filter out petroleum products from stormwater runoff.

Envirologix HQB Oil Water Separator
The OWS is located in the upper northeast section of the east lot. The OWS receives stormwater and wash water from the trench drain east of the shop. It is designed to separate both heavy oils (grease) and light oils (motor oil) from wash water and stormwater runoff and also separates sand and gravel from influent. The OWS discharges to SWWS, which prevents discharge to the environment.

Refer to the site maps in Figure B-1 for outfall information provided in Sections 1.3 of this SWPPP and for more detailed information on drainage patterns and control measures associated with this facility.

3.1.7 Salt Storage Piles or Piles Containing Salt

See Section 2.4

3.1.8 Dust Generation and Vehicle Tracking of Industrial Materials

Dust generation at the facility is minimal and dust suppression is not typically required. Items that are frequently removed from the facility primarily include heavy equipment and government vehicles, which are kept on paved parking areas or roadways; and Materials of Trade transported by craft workers to and from jobsites. Raw industrial materials are not transported to/from the site. Equipment brought in from other areas of the Laboratory may be covered in mud from recent storm events. These vehicles may track sediment onto the facility. Sweeping with a vacuum sweeper is performed and logged on Attachment 10.

3.2 Numeric Effluent Limitations Based on Effluent Limitations Guidelines

The TA-60-0001 Heavy Equipment Shop is classified under **Sector P- Land Transportation and Warehousing** and **Sector AA – Fabricated Metal Products** and does not meet the industrial category requirements for effluent monitoring listed in Part 1.2.1.4 *(Table 1-1 Applicable Effluent Limitations Guidelines)* of the 2021 MSGP.

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 the TA-60-0001 HEY discharges to Sandia Canyon. Certain stream reaches within Sandia Canyon are identified as impaired waters by the NMED Surface Water Quality Bureau (SWQB).

According to the 2022-2024 State of NM Clean Water Act 303d/305b Integrated Report and Final List of Assessed Surface Waters, pollutants causing the impairment are listed as total recoverable Aluminum, PCB (Aroclors), and dissolved Copper. 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.

4.4 Erosion and Sediment Control

See Section 3.1.5 of this SWPPP.

4.5 Employee Training

Employee training is essential to 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 measures 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 is 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 (CUI). All training records will be managed in accordance with P204-1, *Sensitive Unclassified Information*.

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:

- 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-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.

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 evaluated:

- 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 waste or 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 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 your 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 assessment is not conducted during a quarter:

- Document rationale (no precipitation event or adverse conditions, etc.); and
- Perform an additional assessment during the next qualifying storm event if unable to perform in a particular quarter.

Perform one quarterly assessment during snow melt (taken during a measurable discharge from the site).

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

The PPT member performing the visual assessment documents potential stormwater pollution problems that are observed during the assessment on the quarterly visual assessment form. Any conditions requiring corrective actions identified during the assessment is 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 benchmark and indicator parameters monitoring for industrial activity as identified in Table 4-1 of the 2021 MSGP. 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 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 is collected during the next qualifying storm event or as soon as practicable.

Monitoring occurs at automated sampling station **MSGP02201** (Outfall 022) as identified in Section 1.3. Discharge from the facility is east to Sandia Canyon (impaired waters), which is a tributary of the Rio Grande located approximately 8.5 miles east of the facility.

Outfalls 021, 023, 024 and 025 are “substantially identical” to Outfall 022 based on common potential pollutant sources, drainage areas, activities within the drainage areas and general site topography and characteristics. Outfall locations are shown on the site maps provided in Figure B-1. 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 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 annual monitoring of the constituent (as required by Part 4.2.5 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 Reports:

- 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).

The table on the following page lists the current 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 9.6.2.2 of the 2021 MSGP.

Required Monitoring for Calendar Year 2025

Outfall	Monitoring Requirement	Industrial Sector	Assessment Unit	Analyte	Filtered/ Unfiltered	Regulatory Standard	Units	Regulatory Standard Type	Regulatory Standard Reference
022	Quarterly Benchmark	AA	—	Al	F10u	1100	µg/L	Benchmark Limit	Part 8.AA.6
	Quarterly Benchmark	AA	—	Zn	F	104	µg/L	Benchmark Limit	Part 8.AA.6
	Quarterly Benchmark	AA	—	NO3+NO2-N	UF	0.68	mg/L	Benchmark Limit	Part 8.AA.6
	Impaired Waters	—	NM-9000.A_047	Al	F10u	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

F10u = 10 µm filter
F = 0.45 µm filter
UF = Unfiltered
N/A = Not applicable
Al = Aluminum
COD = Chemical Oxygen Demand
NO2+NO3-N = Nitrate plus Nitrite as Nitrogen
TSS = Total Dissolved Solids
pH = Potential Hydrogen (Acidity or Alkalinity)
Zn = Zinc
µg/L = Micrograms per Liter
mg/L = Milligrams per Liter
SU = Standard Units
NM = New Mexico

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 6.2.6.1 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 April 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 only.

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 (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-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; or
- 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 2

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 that 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 Action 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 SCMs are kept in Attachments 9 and 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 6.3.3.

7.0 ACRONYMS

AIM	Additional Implementation Measures
AOC	Area of Concern
BMP	Best Management Practice
CAR	Corrective Action Report
DEP	Deployed Environmental Professional
DOE	Department of Energy
DO	Division Office
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
HAZMAT	Hazardous Materials (Response Group)
IF	Institutional Facilities
IPaC	Information for Planning and Consultation
LANL or the Laboratory	Los Alamos National Laboratory
LOG-HERG	Logistics – Heavy Equipment Roads & Grounds
MSGP or Permit	Multi-Sector General Permit
NMAC	New Mexico Administrative Code
NMED	New Mexico Environment Department
NOI	Notice of Intent
NPDES	National Pollutant Discharge Elimination System
OWS	Oil/Water Separator
PCB	Polychlorinated Biphenyl
PM	Preventative Maintenance
PPT	Pollution Prevention Team
SCM	Stormwater Control Measure
SIDP	Substantially Identical Discharge Point
SWMU	Solid Waste Management Unit
SWPPP	Stormwater Pollution Prevention Plan
SWWS	Sanitary Wastewater System
UIS	Utilities and Infrastructure Support
URL	Uniform Resource Locator

8.0 SWPPP CERTIFICATION

STORMWATER POLLUTION PREVENTION PLAN
TA-60-0001 Heavy Equipment Shop
Los Alamos National Laboratory

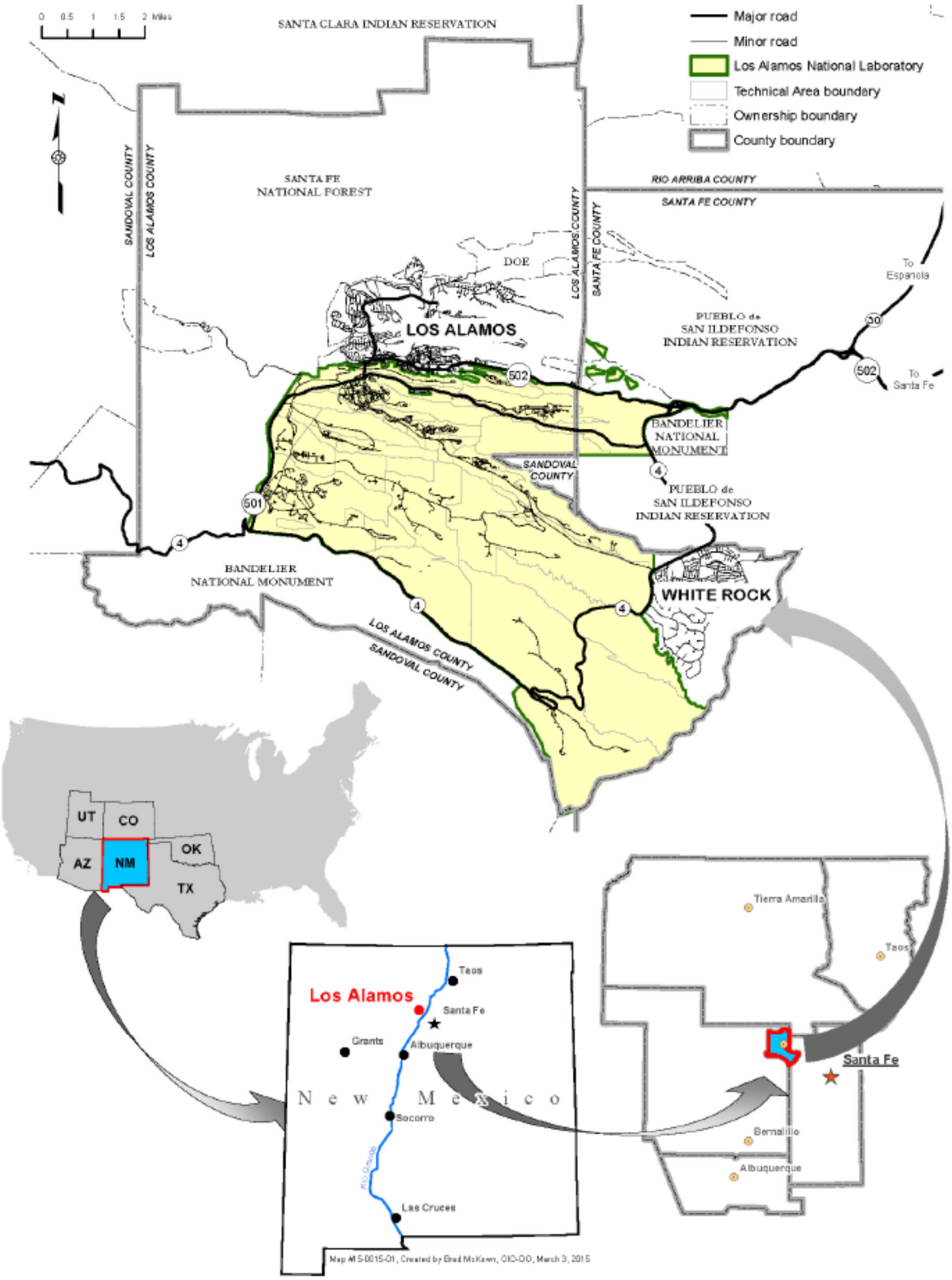
CERTIFICATION STATEMENT

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 JAMES O'GRADY (Affiliate) Digitally signed by JAMES O'GRADY (Affiliate) Date: 2025.01.23 14:35:10 -07'00' Date 1/23/2025

James Patrick O'Grady
Operations Manager 4: IF-DO

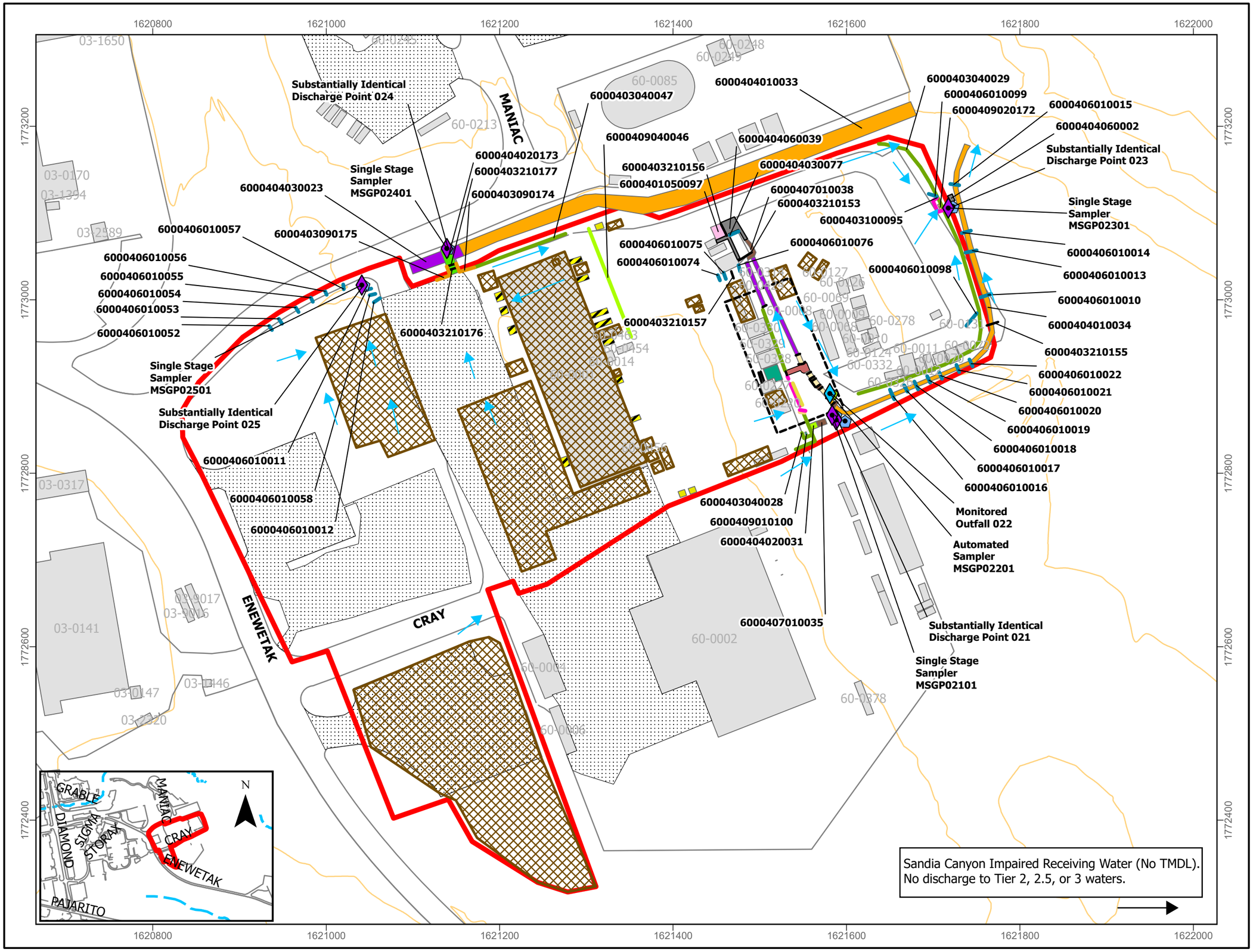
FIGURE A: GENERAL LOCATION MAP



Map(s)

FIGURE B-1: FACILITY SITE MAPS

TA-60-0001
HEAVY EQUIPMENT YARD
BMP SITE MAP



- Automated Samplers
- Single Stage Samplers
- Monitored Outfalls
- Substantially Identical Discharge Point
- Asphalt Berm
- Eco-Blok
- Gravel Bags
- Heavy Metal Filter Sock
- Rock Check Dam
- Straw Wattles
- Trench Drain
- Curbing
- Drainage
- Paved Roads
- 10 ft Contour
- Boundary of Industrial Activity
- BMP Inset Area of Interest
- Asphalt Channel/Swale
- Drop Inlet with Petro Plug
- Drop Inlet with filters
- Earthen Drainage Channel
- Gabion Swale
- Gabions
- Gravel Mulch
- Rip Rap
- Rock Channel/Swale
- Sediment Trap
- TRM Lined Swale
- Concrete/Asphalt Channel/Swale
- Industrial Activity Areas
- Loading/Unloading Areas
- Dumpsters
- LANL Structures
- Paved Parking Lot
- Flow Direction

8.4 Acres, 63% Impervious Surface.
Note - No Critical Habitat Areas.

Map number: 23-042-TA-60-1-Heavy Equipment Yard-BMP
Map created by: Robyn Hollis, IPPO
Updated: October 17, 2024
Version 17

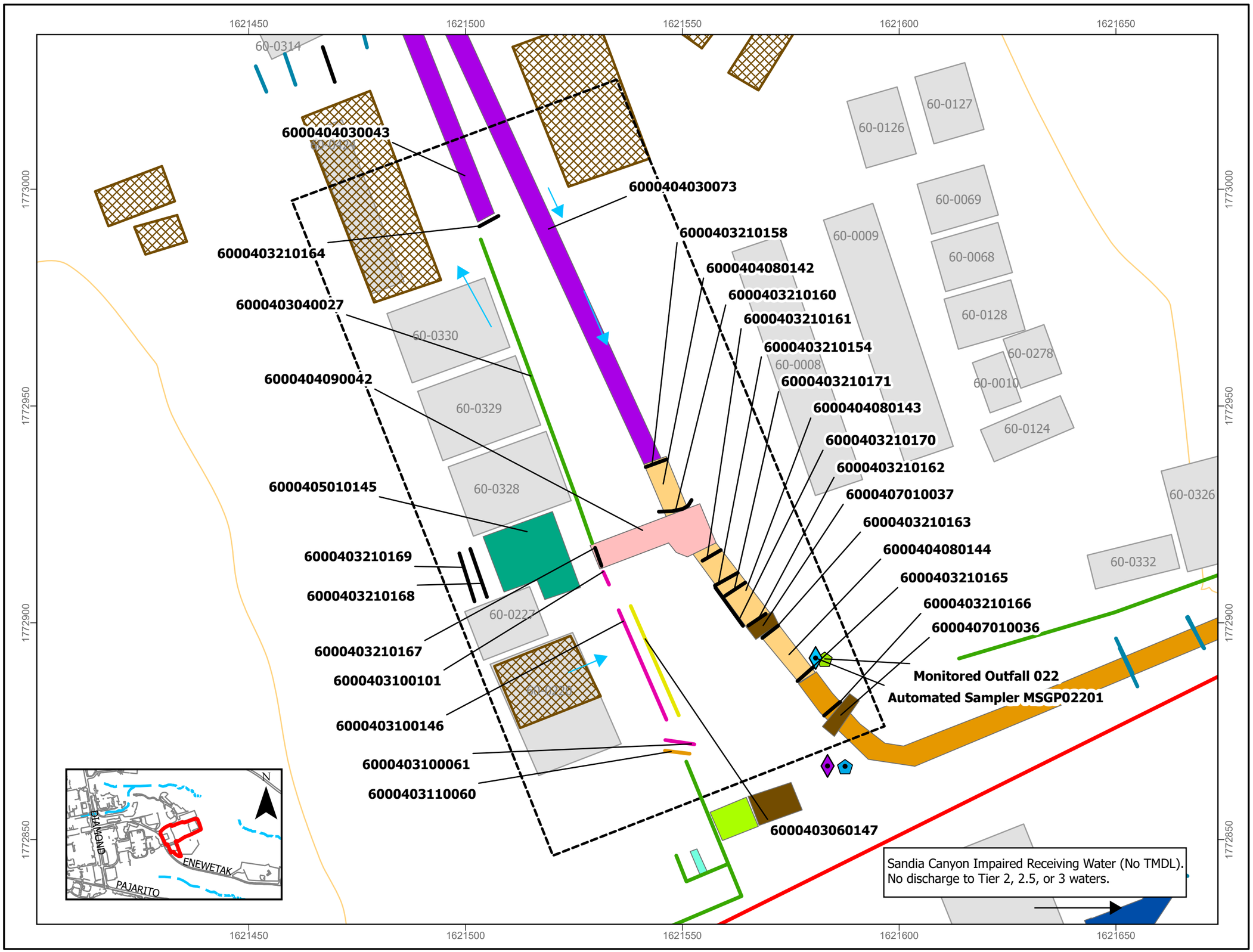
New Mexico State Plane Coordinate System
Central Zone (3002)
North American Datum, 1983 (NAD 83)
US Survey Ft

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.

N

0 30 60 120 Feet

TA-60-0001
HEAVY EQUIPMENT YARD
BMP INSET
SITE MAP



- Automated Samplers
- Monitored Outfalls
- Asphalt Berm
- Eco-Blok
- Gravel Bags
- Heavy Metal Filter Sock
- Rock Check Dam
- Straw Wattles
- BMP Inset Area of Interest
- Boundary of Industrial Activity
- TRM Lined Swale
- Riprap
- Sediment Trap
- Asphalt Channel/Swale
- Drop Inlet with Petro Plug
- Earthen drainage channel
- Gabion Swale
- Gabions
- Rock Channel/Swale
- LANL Structure
- Industrial Activity Areas
- 10 ft Contour
- Single Stage Samplers
- Substantially Identical Discharge Point
- Flow Direction

7.99 Acres, 60% Impervious Surface.
Note - No Critical Habitat Areas.

Map number: 16-0015-TA-60-1-Heavy Equipment Yard-BMP Inset
Map created by: Robyn Hollis, IPPO
Updated: September 3, 2024
Version 3

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.

N
0 10 20 40 Feet

TA-60-0001
HEAVY EQUIPMENT YARD
IAA SITE MAP

1620800 1621000 1621200 1621400 1621600 1621800 1622000

1773200 1773000 1772800 1772600 1772400

MANIAC

Substantially Identical Discharge Point 024

Used Oil Storage

Covered Bulk Substances Transfer Area with Secondary Containment

Oil/Water Separator

Filter Crusher

Single Stage Sampler MSGP02401

Substantially Identical Discharge Point 023

Single Stage Sampler MSGP02301

Tire Recycle Roll off Bin

NM Special Waste Storage Area

Metal Recycle Roll off Bin

Single Stage Sampler MSGP02501

Product Storage Area

Drum Storage Area

Contained Metal Raw Material Storage

Substantially Identical Discharge Point 025

Contained Metal Raw Material Storage

Fueling Area

Heavy Equipment Storage Area

Contained Metal Raw Material Storage

Vehicle Parking

Monitored Outfall 022

Oil Filled Transformer

Vehicle Maintenance Area

Automated Sampler MSGP02201

ENEWETAK

GRAY

Used Oil Storage

Contained Metal Raw Material Storage

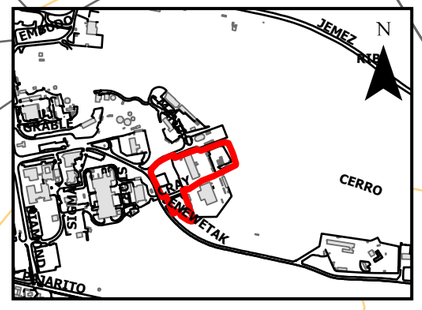
Substantially Identical Discharge Point 021

Product Oil Storage

Covered Metal Raw Material Storage

Single Stage Sampler MSGP02101

Vehicle Parking



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

- Automated Sampler
- Single Stage Sampler
- Monitored Outfall
- Substantially Identical Discharge Point
- Asphalt Berm
- Eco-Blok
- Gravel Bags
- Heavy Metal Filter Sock
- Rock Check Dam
- Straw Wattles
- Trench Drain
- Curbing
- Drainage
- Paved Roads
- 10ft Contour
- Boundary of Industrial Activity
- Asphalt Channel/Swale
- Drop Inlet with Petro Plug
- Drop Inlet with filters
- Earthen Drainage Channel
- Gabion Swale
- Gabions
- Gravel Mulch
- Rip Rap
- Rock Channel/Swale
- Sediment Trap
- TRM Lined Swale
- Concrete/Asphalt Channel/Swale
- Industrial Activity Areas
- Loading/Unloading Areas
- Dumpsters
- LANL Structures
- Paved Parking
- Flow Direction

8.6 Acres, 95% Impervious Surface.
Note - No Critical Habitat Areas.

Map number: 23-042-TA-60-1-Heavy Equipment Yard-IAA
Map created by: Robyn Hollis, IPPO
Updated: October17, 2024
Version 11

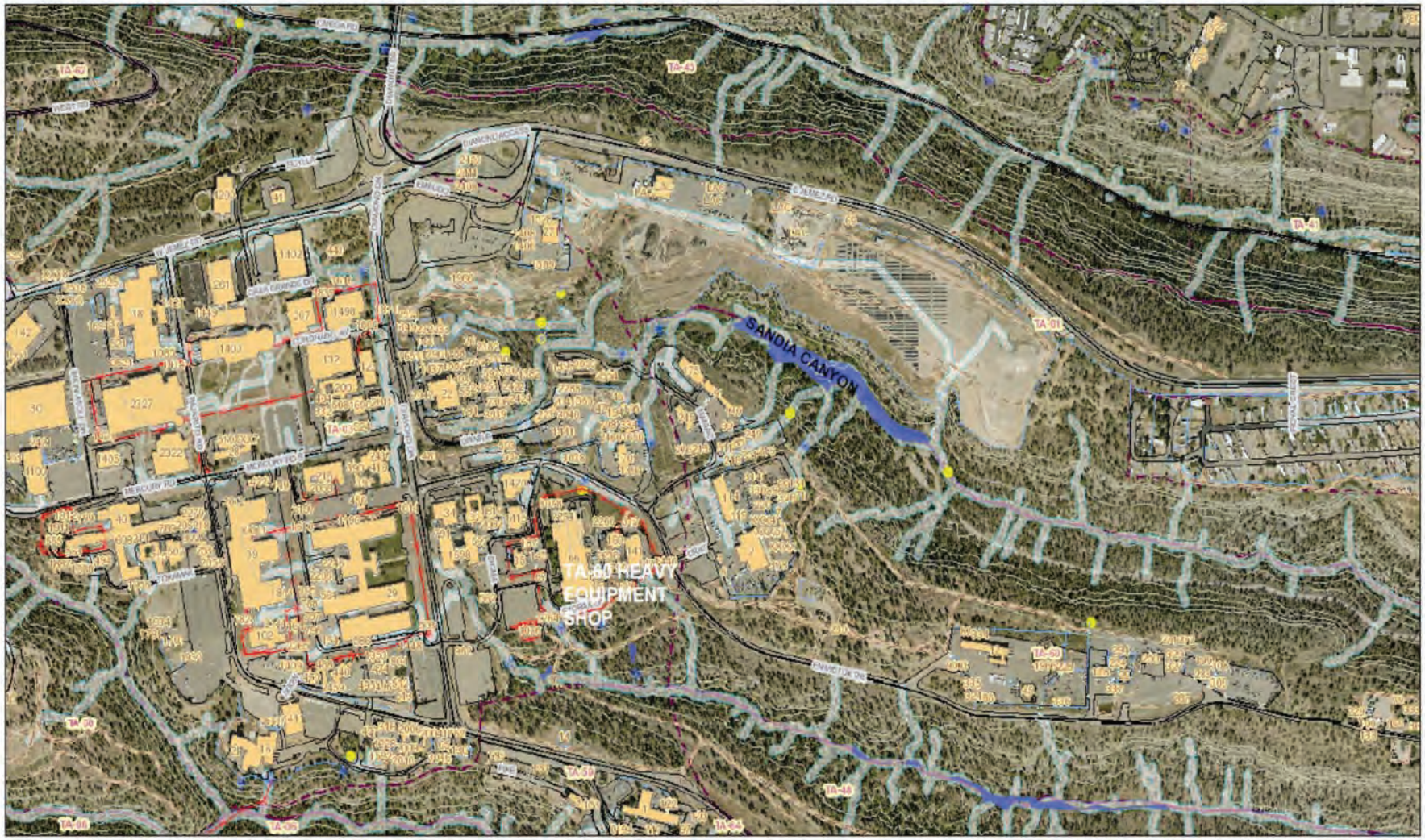
New Mexico State Plane Coordinate System
Central Zone (3002)
North American Datum, 1983 (NAD 83)
US Survey Ft

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.

N

0 35 70 140 Feet

FIGURE B-2: RECEIVING WATERS MAP



Buildings
Wetlands
Stormwater Monitoring Area (SMA)
Watercourse with Buffer
Gage Stations
TA Boundary

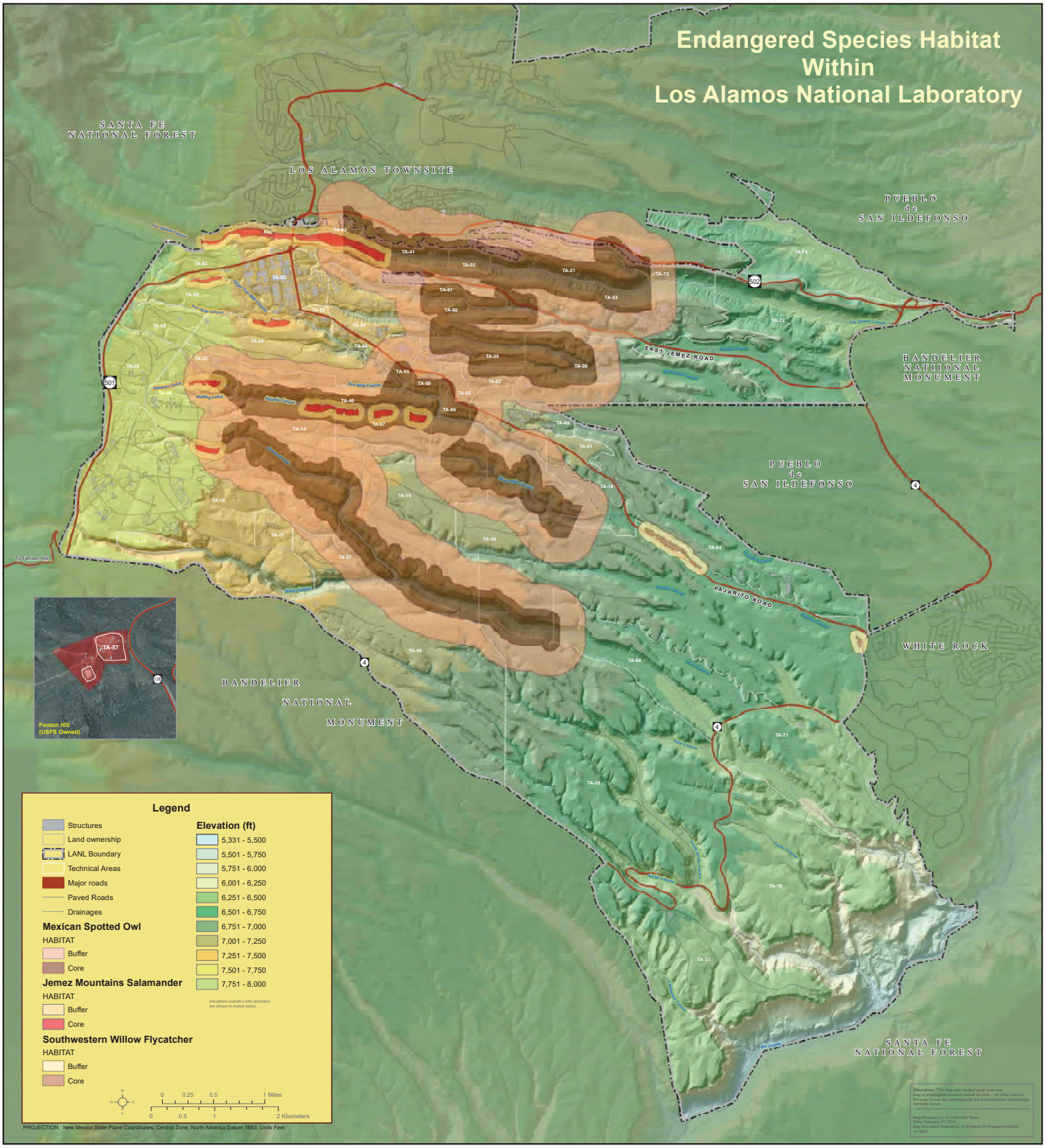
Scale: 1:6,804

0 0.075 0.15 0.3 mi

0 0.125 0.25 0.5 km

LANL, ENV Division

FIGURE B-3: LANL ENDANGERED SPECIES MAP


Endangered Species Habitat
Within
Los Alamos National Laboratory
SANTA FE
NATIONAL FOREST
LOS ALAMOS TOWNSITE
PUEBLO
de
SAN ILDEFONSO
BANDELIER
NATIONAL
MONUMENT
WHITE ROCK
EAST JEMEZ ROAD
PAJARITO ROAD
501
502
4
TA-57
Fenton Hill
(USFS Owned)
Legend
Structures
Land ownership
LANL Boundary
Technical Areas
Major roads
Paved Roads
Drainages
Mexican Spotted Owl
HABITAT
Buffer
Core
Jemez Mountains Salamander
HABITAT
Buffer
Core
Southwestern Willow Flycatcher
HABITAT
Buffer
Core
Elevation (ft)
5,331 - 5,500
5,501 - 5,750
5,751 - 6,000
6,001 - 6,250
6,251 - 6,500
6,501 - 6,750
6,751 - 7,000
7,001 - 7,250
7,251 - 7,500
7,501 - 7,750
7,751 - 8,000
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 OID-DO-GIS Team
Date: February 21, 2014
Map Document Reference: X:\Projects\14-Projects\14-0020\14-0020

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

NPDES FORM 3510-6		UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, DC 20460 NOTICE OF INTENT (NOI) FOR STORMWATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY UNDER THE NPDES MULTI-SECTOR GENERAL PERMIT	FORM Approved OMB No. 2040-0004 Expires on 07/31/2026

This collection of information is approved by OMB under the Paperwork Reduction Act, 44 U.S.C. 3501 et seq. (OMB Control No. 2040-0004). Responses to this collection of information are mandatory in accordance with this permit and EPA NPDES regulations (40 CFR 122.28(b)(2)). An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB control number. The public reporting and recordkeeping burden for this collection of information are estimated to average 3.7 to 4.1 hours per response. Send comments on the Agency's need for this information, the accuracy of the provided burden estimates and any suggested methods for minimizing respondent burden to the Regulatory Support Division Director, U.S. Environmental Protection Agency (2821T), 1200 Pennsylvania Ave., NW, Washington, D.C. 20460. Include the OMB control number in any correspondence. Do not send the completed form to this address.

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:** Jacob Knight

Organization: Triad National Security LLC

Phone: 505-665-5880 **Ext.:**

Email: jknight@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): 41

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

Co-Located Sector: A **Co-Located Subsector:** A3 **Co-Located SIC Code:** 2411

If you are a Sector A facility, do you manufacture, use, or store creosote or creosote-treated wood in areas that are exposed to precipitation?

No

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
☐	**D** - ASPHALT PAVING AND ROOFING MATERIALS AND LUBRICANTS	**D1** - Asphalt Paving and Roofing Materials	2951
☐	**N** - SCRAP RECYCLING FACILITIES	**N2** - Source-separated Recycling Facility	5093
☑	**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
☑	**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
☐	**A** - TIMBER PRODUCTS	**A3** - Log Storage and Handling	2411

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	Yes	No
POLYCHLORINATED BIPHENYLS (PCBS)	Polychlorinated biphenyls [PCBs]	Milligrams per Liter	Yes	No
METALS (OTHER THAN MERCURY)	Copper, dissolved [as Cu]	Micrograms per Liter	No	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**
☐	**D** - ASPHALT PAVING AND ROOFING MATERIALS AND LUBRICANTS	**D1** - Asphalt Paving and Roofing Materials	2951
☐	**N** - SCRAP RECYCLING FACILITIES	**N2** - Source-separated Recycling Facility	5093

	Sector	Subsector	SIC/Activity Code
☑	**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
☑	**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
☐	**A** - TIMBER PRODUCTS	**A3** - Log Storage and Handling	2411

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	Yes	No
METALS (OTHER THAN MERCURY)	Aluminum, total recoverable	Micrograms per Liter	Yes	No
METALS (OTHER THAN MERCURY)	Copper, dissolved [as Cu]	Micrograms per Liter	No	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
☐	**D** - ASPHALT PAVING AND ROOFING MATERIALS AND LUBRICANTS	**D1** - Asphalt Paving and Roofing Materials	2951
☐	**N** - SCRAP RECYCLING FACILITIES	**N2** - Source-separated Recycling Facility	5093
☑	**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
☐	**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
☐	**A** - TIMBER PRODUCTS	**A3** - Log Storage and Handling	2411

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	Yes	No
METALS (OTHER THAN MERCURY)	Aluminum, total recoverable	Micrograms per Liter	Yes	No
METALS (OTHER THAN MERCURY)	Copper, dissolved [as Cu]	Micrograms per Liter	No	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
☐	**D** - ASPHALT PAVING AND ROOFING MATERIALS AND LUBRICANTS	**D1** - Asphalt Paving and Roofing Materials	2951
☐	**N** - SCRAP RECYCLING FACILITIES	**N2** - Source-separated Recycling Facility	5093
☑	**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
☐	**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
☐	**A** - TIMBER PRODUCTS	**A3** - Log Storage and Handling	2411

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:
	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	Yes	No
METALS (OTHER THAN MERCURY)	Aluminum, total recoverable	Micrograms per Liter	Yes	No
METALS (OTHER THAN MERCURY)	Copper, dissolved [as Cu]	Micrograms per Liter	No	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
☐	**D** - ASPHALT PAVING AND ROOFING MATERIALS AND LUBRICANTS	**D1** - Asphalt Paving and Roofing Materials	2951
☐	**N** - SCRAP RECYCLING FACILITIES	**N2** - Source-separated Recycling Facility	5093
☑	**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
☐	**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
☐	**A** - TIMBER PRODUCTS	**A3** - Log Storage and Handling	2411

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: 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	Yes	No
METALS (OTHER THAN MERCURY)	Aluminum, total recoverable	Micrograms per Liter	Yes	No
METALS (OTHER THAN MERCURY)	Copper, dissolved [as Cu]	Micrograms per Liter	No	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
☐	**D** - ASPHALT PAVING AND ROOFING MATERIALS AND LUBRICANTS	**D1** - Asphalt Paving and Roofing Materials	2951
☐	**N** - SCRAP RECYCLING FACILITIES	**N2** - Source-separated Recycling Facility	5093
☑	**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
☐	**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
☐	**A** - TIMBER PRODUCTS	**A3** - Log Storage and Handling	2411

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:**	**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	Yes	No
METALS (OTHER THAN MERCURY)	Aluminum, total recoverable	Micrograms per Liter	Yes	No
METALS (OTHER THAN MERCURY)	Copper, dissolved [as Cu]	Micrograms per Liter	No	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**
☑	**D** - ASPHALT PAVING AND ROOFING MATERIALS AND LUBRICANTS	**D1** - Asphalt Paving and Roofing Materials	2951
☐	**N** - SCRAP RECYCLING FACILITIES	**N2** - Source-separated Recycling Facility	5093
☐	**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
☐	**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

	Sector	Subsector	SIC/Activity Code
☐	**A** - TIMBER PRODUCTS	**A3** - Log Storage and Handling	2411

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	**Does your discharge point have any discharges subject to this effluent limitation guideline?** Yes

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	Yes	No
MERCURY	Mercury, total [as Hg]	Milligrams per Liter	No	No
METALS (OTHER THAN MERCURY)	Copper, dissolved [as Cu]	Micrograms per Liter	Yes	No
RADIATION	Alpha, gross adjusted	Picocuries per Liter	Yes	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
☐	**D** - ASPHALT PAVING AND ROOFING MATERIALS AND LUBRICANTS	**D1** - Asphalt Paving and Roofing Materials	2951
☐	**N** - SCRAP RECYCLING FACILITIES	**N2** - Source-separated Recycling Facility	5093
☑	**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
☐	**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
☐	**A** - TIMBER PRODUCTS	**A3** - Log Storage and Handling	2411

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: 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	Yes	No
MERCURY	Mercury, total [as Hg]	Milligrams per Liter	No	No

Cause of Impairment Group	Pollutant	Units	Monitoring Required?	TMDL Completed?
METALS (OTHER THAN MERCURY)	Copper, dissolved [as Cu]	Micrograms per Liter	Yes	No
RADIATION	Alpha, gross adjusted	Picocuries per Liter	Yes	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
☐	**D** - ASPHALT PAVING AND ROOFING MATERIALS AND LUBRICANTS	**D1** - Asphalt Paving and Roofing Materials	2951
☐	**N** - SCRAP RECYCLING FACILITIES	**N2** - Source-separated Recycling Facility	5093
☑	**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
☐	**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
☐	**A** - TIMBER PRODUCTS	**A3** - Log Storage and Handling	2411

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	Yes	No
METALS (OTHER THAN MERCURY)	Aluminum, total recoverable	Micrograms per Liter	Yes	No
METALS (OTHER THAN MERCURY)	Copper, dissolved [as Cu]	Micrograms per Liter	No	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
☐	**D** - ASPHALT PAVING AND ROOFING MATERIALS AND LUBRICANTS	**D1** - Asphalt Paving and Roofing Materials	2951
☐	**N** - SCRAP RECYCLING FACILITIES	**N2** - Source-separated Recycling Facility	5093
☑	**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
☐	**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
☐	**A** - TIMBER PRODUCTS	**A3** - Log Storage and Handling	2411

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: 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	Yes	No
METALS (OTHER THAN MERCURY)	Aluminum, total recoverable	Micrograms per Liter	Yes	No
METALS (OTHER THAN MERCURY)	Copper, dissolved [as Cu]	Micrograms per Liter	No	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
☐	**D** - ASPHALT PAVING AND ROOFING MATERIALS AND LUBRICANTS	**D1** - Asphalt Paving and Roofing Materials	2951
☐	**N** - SCRAP RECYCLING FACILITIES	**N2** - Source-separated Recycling Facility	5093
☑	**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
☐	**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
☐	**A** - TIMBER PRODUCTS	**A3** - Log Storage and Handling	2411

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:	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	Yes	No
MERCURY	Mercury, total [as Hg]	Milligrams per Liter	No	No
METALS (OTHER THAN MERCURY)	Copper, dissolved [as Cu]	Micrograms per Liter	Yes	No
RADIATION	Alpha, gross adjusted	Picocuries per Liter	Yes	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
☐	**D** - ASPHALT PAVING AND ROOFING MATERIALS AND LUBRICANTS	**D1** - Asphalt Paving and Roofing Materials	2951
☑	**N** - SCRAP RECYCLING FACILITIES	**N2** - Source-separated Recycling Facility	5093
☐	**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
☐	**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
☐	**A** - TIMBER PRODUCTS	**A3** - Log Storage and Handling	2411

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	Yes	No
METALS (OTHER THAN MERCURY)	Aluminum, total recoverable	Micrograms per Liter	Yes	No
METALS (OTHER THAN MERCURY)	Copper, dissolved [as Cu]	Micrograms per Liter	No	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**
☐	**D** - ASPHALT PAVING AND ROOFING MATERIALS AND LUBRICANTS	**D1** - Asphalt Paving and Roofing Materials	2951
☐	**N** - SCRAP RECYCLING FACILITIES	**N2** - Source-separated Recycling Facility	5093

	Sector	Subsector	SIC/Activity Code
☑	**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
☐	**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
☐	**A** - TIMBER PRODUCTS	**A3** - Log Storage and Handling	2411

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:**	**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	Yes	No
METALS (OTHER THAN MERCURY)	Aluminum, total recoverable	Micrograms per Liter	Yes	No
METALS (OTHER THAN MERCURY)	Copper, dissolved [as Cu]	Micrograms per Liter	No	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
☐	**D** - ASPHALT PAVING AND ROOFING MATERIALS AND LUBRICANTS	**D1** - Asphalt Paving and Roofing Materials	2951
☐	**N** - SCRAP RECYCLING FACILITIES	**N2** - Source-separated Recycling Facility	5093
☑	**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
☑	**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
☐	**A** - TIMBER PRODUCTS	**A3** - Log Storage and Handling	2411

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:	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	Yes	No
METALS (OTHER THAN MERCURY)	Aluminum, total recoverable	Micrograms per Liter	Yes	No
METALS (OTHER THAN MERCURY)	Copper, dissolved [as Cu]	Micrograms per Liter	No	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
☐	**D** - ASPHALT PAVING AND ROOFING MATERIALS AND LUBRICANTS	**D1** - Asphalt Paving and Roofing Materials	2951
☐	**N** - SCRAP RECYCLING FACILITIES	**N2** - Source-separated Recycling Facility	5093
☑	**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
☐	**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
☐	**A** - TIMBER PRODUCTS	**A3** - Log Storage and Handling	2411

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: 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?
METALS (OTHER THAN MERCURY)	Aluminum, total recoverable	Micrograms per Liter	Yes	No
METALS (OTHER THAN MERCURY)	Copper, dissolved [as Cu]	Micrograms per Liter	No	No
POLYCHLORINATED BIPHENYLS (PCBS)	Polychlorinated biphenyls [PCBs]	Milligrams per Liter	Yes	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
☐	**D** - ASPHALT PAVING AND ROOFING MATERIALS AND LUBRICANTS	**D1** - Asphalt Paving and Roofing Materials	2951
☐	**N** - SCRAP RECYCLING FACILITIES	**N2** - Source-separated Recycling Facility	5093
☑	**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
☑	**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
☐	**A** - TIMBER PRODUCTS	**A3** - Log Storage and Handling	2411

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:	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	Yes	No
POLYCHLORINATED BIPHENYLS (PCBS)	Polychlorinated biphenyls [PCBs]	Milligrams per Liter	Yes	No
METALS (OTHER THAN MERCURY)	Copper, dissolved [as Cu]	Micrograms per Liter	No	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
☐	**D** - ASPHALT PAVING AND ROOFING MATERIALS AND LUBRICANTS	**D1** - Asphalt Paving and Roofing Materials	2951
☐	**N** - SCRAP RECYCLING FACILITIES	**N2** - Source-separated Recycling Facility	5093
☑	**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
☑	**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
☐	**A** - TIMBER PRODUCTS	**A3** - Log Storage and Handling	2411

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	Yes	No
POLYCHLORINATED BIPHENYLS (PCBS)	Polychlorinated biphenyls [PCBs]	Milligrams per Liter	Yes	No
METALS (OTHER THAN MERCURY)	Copper, dissolved [as Cu]	Micrograms per Liter	No	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**
☐	**D** - ASPHALT PAVING AND ROOFING MATERIALS AND LUBRICANTS	**D1** - Asphalt Paving and Roofing Materials	2951
☐	**N** - SCRAP RECYCLING FACILITIES	**N2** - Source-separated Recycling Facility	5093
☑	**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

	Sector	Subsector	SIC/Activity Code
☐	**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
☐	**A** - TIMBER PRODUCTS	**A3** - Log Storage and Handling	2411

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:	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	Yes	No
METALS (OTHER THAN MERCURY)	Aluminum, total recoverable	Micrograms per Liter	Yes	No
METALS (OTHER THAN MERCURY)	Copper, dissolved [as Cu]	Micrograms per Liter	No	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
☐	**D** - ASPHALT PAVING AND ROOFING MATERIALS AND LUBRICANTS	**D1** - Asphalt Paving and Roofing Materials	2951
☐	**N** - SCRAP RECYCLING FACILITIES	**N2** - Source-separated Recycling Facility	5093
☑	**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
☐	**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
☐	**A** - TIMBER PRODUCTS	**A3** - Log Storage and Handling	2411

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: 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?
METALS (OTHER THAN MERCURY)	Aluminum, total recoverable	Micrograms per Liter	Yes	No
POLYCHLORINATED BIPHENYLS (PCBS)	Polychlorinated biphenyls [PCBs]	Milligrams per Liter	Yes	No

Cause of Impairment Group	Pollutant	Units	Monitoring Required?	TMDL Completed?
METALS (OTHER THAN MERCURY)	Copper, dissolved [as Cu]	Micrograms per Liter	No	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
☐	**D** - ASPHALT PAVING AND ROOFING MATERIALS AND LUBRICANTS	**D1** - Asphalt Paving and Roofing Materials	2951
☐	**N** - SCRAP RECYCLING FACILITIES	**N2** - Source-separated Recycling Facility	5093
☑	**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
☐	**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
☐	**A** - TIMBER PRODUCTS	**A3** - Log Storage and Handling	2411

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: 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	Yes	No
METALS (OTHER THAN MERCURY)	Aluminum, total recoverable	Micrograms per Liter	Yes	No
METALS (OTHER THAN MERCURY)	Copper, dissolved [as Cu]	Micrograms per Liter	No	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
☐	**D** - ASPHALT PAVING AND ROOFING MATERIALS AND LUBRICANTS	**D1** - Asphalt Paving and Roofing Materials	2951
☐	**N** - SCRAP RECYCLING FACILITIES	**N2** - Source-separated Recycling Facility	5093
☑	**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
☐	**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
☐	**A** - TIMBER PRODUCTS	**A3** - Log Storage and Handling	2411

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:	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	Yes	No
METALS (OTHER THAN MERCURY)	Aluminum, total recoverable	Micrograms per Liter	Yes	No
METALS (OTHER THAN MERCURY)	Copper, dissolved [as Cu]	Micrograms per Liter	No	No

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
☐	**D** - ASPHALT PAVING AND ROOFING MATERIALS AND LUBRICANTS	**D1** - Asphalt Paving and Roofing Materials	2951
☐	**N** - SCRAP RECYCLING FACILITIES	**N2** - Source-separated Recycling Facility	5093
☐	**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
☑	**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
☐	**A** - TIMBER PRODUCTS	**A3** - Log Storage and Handling	2411

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:
	CA&#65533;ON 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	Yes	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
☐	**D** - ASPHALT PAVING AND ROOFING MATERIALS AND LUBRICANTS	**D1** - Asphalt Paving and Roofing Materials	2951
☐	**N** - SCRAP RECYCLING FACILITIES	**N2** - Source-separated Recycling Facility	5093
☑	**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
☐	**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
☐	**A** - TIMBER PRODUCTS	**A3** - Log Storage and Handling	2411

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:**	**Listed Water ID:**
	ARROYO DE LA DELFE (ABOVE KIELING SPRING TO HEADW)	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	Yes	No
METALS (OTHER THAN MERCURY)	Aluminum, total recoverable	Micrograms per Liter	Yes	No
METALS (OTHER THAN MERCURY)	Copper, dissolved [as Cu]	Micrograms per Liter	Yes	No
RADIATION	Alpha, gross adjusted	Picocuries per Liter	Yes	No

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**
☐	**D** - ASPHALT PAVING AND ROOFING MATERIALS AND LUBRICANTS	**D1** - Asphalt Paving and Roofing Materials	2951
☐	**N** - SCRAP RECYCLING FACILITIES	**N2** - Source-separated Recycling Facility	5093
☐	**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

	Sector	Subsector	SIC/Activity Code
☑	**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
☐	**A** - TIMBER PRODUCTS	**A3** - Log Storage and Handling	2411

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:
	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	Yes	No
METALS (OTHER THAN MERCURY)	Copper, dissolved [as Cu]	Micrograms per Liter	No	No
POLYCHLORINATED BIPHENYLS (PCBS)	Polychlorinated biphenyls [PCBs]	Milligrams per Liter	Yes	No

Discharge Point 085: TA-69 Wood Yard

Applicable Sectors

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

	Sector	Subsector	SIC/Activity Code
☐	**D** - ASPHALT PAVING AND ROOFING MATERIALS AND LUBRICANTS	**D1** - Asphalt Paving and Roofing Materials	2951
☐	**N** - SCRAP RECYCLING FACILITIES	**N2** - Source-separated Recycling Facility	5093
☐	**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
☑	**A** - TIMBER PRODUCTS	**A3** - Log Storage and Handling	2411
☐	**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.

40 CFR Part/Subpart	Eligible Discharges	Affected MSGP Sector	New Source Date	Applicability
Part 429, Subpart I	Discharges resulting from spray down or intentional wetting of logs at wet deck storage areas	A	01/26/1981	**Does your discharge point have any discharges subject to this effluent limitation guideline?** No

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

Latitude/Longitude: 35.867612°N, 106.338173°W

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

Receiving Water

GNIS Name: n/a

Waterbody Name: NM-128.A_15

Listed Water ID: n/a

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	Yes	No
POLYCHLORINATED BIPHENYLS (PCBS)	Polychlorinated biphenyls [PCBs]	Milligrams per Liter	Yes	No
METALS (OTHER THAN MERCURY)	Aluminum, total recoverable	Micrograms per Liter	Yes	No
METALS (OTHER THAN MERCURY)	Copper, dissolved [as Cu]	Micrograms per Liter	Yes	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: Jacob L Knight

Phone: 505-665-5880 **Ext.:**

Email: jknight@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://eprr.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-0
538, Cons. # 02ENNM00-2019-I-0985, Cons. #2-22-05-I-392, Cons. # 02ENNM00-2012-0089
```

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
USFWS concurrence for Clean Fill BA.pdf (attachment/877170)	05/02/2024	463.41 KB
Asphalt Batch Plant and Rock Crusher at Sigma Mesa USFWS Letter.pdf (attachment/877169)	05/02/2024	841.95 KB
20190418_concurrence_LANL asphalt plant replacement.pdf (attachment/877168)	05/02/2024	176.27 KB
1999 HMP Concurrence Letter USFWS to DOE.pdf (attachment/877164)	05/19/2021	276.65 KB
2015-0538_USFWS Concurrence Letter_8-2015.pdf (attachment/877163)	05/19/2021	94.97 KB
Concurrence_8DEC2013_Biological Assessment of Jemez Mtn Salamander site Plan (2).pdf (attachment/877162)	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/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 exceedence 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
05/05/2024	In the Operator Information section of this Change NOI, the NOI Preparer is revised to Jacob Knight.
05/05/2024	In the Facility Information section of this Change NOI, the total estimated area of industrial activity is revised from 38.75 to 41 acres, and Co-located Sector A, Co-located Subsector A3 was added.
05/05/2024	In the Discharge Information section of this Change NOI, Discharge Point 085 was added.
05/05/2024	In the SWPPP Information section of this Change NOI, the SWPPP Contact is revised to Jacob Knight.
05/02/2024	The 2024-2026 State of New Mexico CWA 303(d)/305(b) Integrated Report was approved by the NM WQCC on March 14, 2024. In that report, Copper (dissolved) was delisted from NM-9000.A_047, Sandia Canyon (Sigma Canyon to NPDES Outfall 001). In the Discharge Information section of this Change NOI, Copper (dissolved) was changed to “Monitoring Not Required” for discharge points 022, 026, 029, 032, 037, 042, 075, 076, 077, and 084 and SIDPs 021, 023, 024, 025, 027, 028, 033, 034, 035. https://www.env.nm.gov/surface-water-quality/303d-305b/
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: 05/10/2024 12:40 PM ET

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.
Feb 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.
Feb 2021	All	Included all inspections, assessments and reports required for the yearly update.	Inserted all required documentation for the yearly revision. Included new stormwater controls installed in 2020.
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 revised to reflect new permit requirements.
January 2022	Attachments	Included all inspections, assessments and reports required for the yearly update.	New procedures were added, new training briefing, all required past reports added.
January 2023	Attachments	Included all inspections, assessments and reports required for the yearly update.	New procedure added, new training briefing, all required reports added.
January 2024	Attachments	Included all inspections, assessments and reports required for the yearly update.	New procedure added, new training briefing, all required reports added.

ATTACHMENT 3: CERTIFICATION OF NO UNAUTHORIZED STORMWATER DISCHARGES

Unauthorized Non-Storm Water Discharge Assessment and Certification

Facility:	TA-60-1 Heavy Equipment Yard		
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 021	None	Visual evaluation	None
SIDP 023	None	Visual evaluation	None
SIDP 024	None	Visual evaluation	None
Monitored Outfall 022	None	Visual evaluation	None

Assessor:

Print Name:	Signature:	Title:	Date Assessed:
Jacob Knight	Jacob Knight	DEP	4/17/2021

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:	Signature:	Title:	Date Certified:
BRIAN WATKINS (Affiliate)	Digitally signed by BRIAN WATKINS (Affiliate) Date: 2021.05.19 11:53:07 -06'00'		

*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)
Digitally signed by 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:	022 External Outfall	**Discharge:**	**022-11** Fabricated Metal Products, except Coating		

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			
01104	**Aluminum, total recoverable**	1 - Effluent Gross	0	--	Sample											755.0	28 - ug/L	0	01/90 - Quarterly	GR - GRAB
					Permit Req.										<=	1100.0 MAXIMUM	28 - ug/L		01/90 - Quarterly	GR - GRAB
					Value NODI															
X 51450	**Nitrite Plus Nitrate Total**	1 - Effluent Gross	0	--	Sample											1.3	19 - mg/L	1	01/90 - Quarterly	GR - GRAB
					Permit Req.										<=	0.68 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

Parameter		Monitoring Location	Field	Type	Description	Acknowledge
Code	Name					
51450	Nitrite Plus Nitrate Total	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

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:	TERRILLLEMKE
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:	022 External Outfall	**Discharge:**	**022-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							7.94				7.94	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											11.2	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											146.0	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-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:	TERRILLLEMKE
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:	022 External Outfall	**Discharge:**	**022-ZC** Zinc: Water Hardness 50-74.99 mg/l		

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			
01090	**Zinc, dissolved [as Zn]**	1 - Effluent Gross	0	--	Sample											98.9	28 - ug/L	0	01/90 - Quarterly	GR - GRAB
					Permit Req.										<=	104.0 MAXIMUM	28 - ug/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:	TERRILLLEMKE
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:	022 External Outfall	**Discharge:**	**022-11** Fabricated Metal Products, except Coating		

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	Units			
01104	**Aluminum, total recoverable**	1 - Effluent Gross	0	--	Sample											922.0	28 - ug/L	0	01/90 - Quarterly	GR - GRAB
					Permit Req.										<=	1100.0 MAXIMUM	28 - ug/L		01/90 - Quarterly	GR - GRAB
					Value NODI															
X 51450	**Nitrite Plus Nitrate Total**	1 - Effluent Gross	0	--	Sample											1.48	19 - mg/L	1	01/90 - Quarterly	GR - GRAB
					Permit Req.										<=	0.68 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

Parameter		Monitoring Location	Field	Type	Description	Acknowledge
Code	Name					
51450	Nitrite Plus Nitrate Total	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

Comments

LA-UR-22-20562. The average concentration of NO3+NO2-N is mathematically certain to exceed the benchmark value triggering AIM Level 1.

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 16:30 (Time Zone: -06:00)

Report Last Signed By

User:	TERRILLLEMKE
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:	022 External Outfall	**Discharge:**	**022-ZC** Zinc: Water Hardness 50-74.99 mg/l		

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	Units			
01090	**Zinc, dissolved [as Zn]**	1 - Effluent Gross	0	--	Sample											95.7	28 - ug/L	0	01/90 - Quarterly	GR - GRAB
					Permit Req.										<=	104.0 MAXIMUM	28 - ug/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-22-20562

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 16:30 (Time Zone: -06:00)

Report Last Signed By

User:	TERRILLLEMKE
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:	022 External Outfall	**Discharge:**	**022-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	Units			
00400	**pH**	1 - Effluent Gross	0	--	Sample							7.23				7.23	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											47.7	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											54.0	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-22-20562

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 16:30 (Time Zone: -06:00)

Report Last Signed By

User:	TERRILLLEMKE
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:	022 External Outfall	**Discharge:**	**022-11** Fabricated Metal Products, except Coating		

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			
X 01104	**Aluminum, total recoverable**	1 - Effluent Gross	0	--	Sample											3860.0	28 - ug/L	1	01/90 - Quarterly	GR - GRAB
					Permit Req.										<=	1100.0 MAXIMUM	28 - ug/L		01/90 - Quarterly	GR - GRAB
					Value NODI															
51450	**Nitrite Plus Nitrate Total**	1 - Effluent Gross	0	--	Sample											0.56	19 - mg/L	0	01/90 - Quarterly	GR - GRAB
					Permit Req.										<=	0.68 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

Parameter		Monitoring Location	Field	Type	Description	Acknowledge
Code	Name					
01104	Aluminum, total recoverable	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

Comments

LA-UR-22-23401. The average concentration of total recoverable Al is mathematically certain to exceed the benchmark value triggering AIM Level 1.

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:	TERRILLLEMKE
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:	022 External Outfall	**Discharge:**	**022-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							7.92				7.92	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											259.0	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											153.0	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-22-23401

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:	TERRILLLEMKE
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:	022 External Outfall	**Discharge:**	**022-ZC** Zinc: Water Hardness 50-74.99 mg/l		

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			
X 01090	**Zinc, dissolved [as Zn]**	1 - Effluent Gross	0	--	Sample											137.0	28 - ug/L	1	01/90 - Quarterly	GR - GRAB
					Permit Req.										<=	104.0 MAXIMUM	28 - ug/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

Parameter		Monitoring Location	Field	Type	Description	Acknowledge
Code	Name					
01090	Zinc, dissolved [as Zn]	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

Comments

LA-UR-22-23401

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:	TERRILLLEMKE
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:	022 External Outfall	**Discharge:**	**022-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							7.92				7.92	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											139.0	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											96.4	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:	TERRILLLEMKE
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:	022 External Outfall	**Discharge:**	**022-ZC** Zinc: Water Hardness 50-74.99 mg/l		

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			
01090	**Zinc, dissolved [as Zn]**	1 - Effluent Gross	0	--	Sample											52.3	28 - ug/L	0	01/90 - Quarterly	GR - GRAB
					Permit Req.										<=	104.0 MAXIMUM	28 - ug/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. The average of four quarterly results for Zn is below the benchmark value therefore monitoring is discontinued until permit year 4 (Part 4.2.2.3.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:	TERRILLLEMKE
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:	022 External Outfall	**Discharge:**	**022-11** Fabricated Metal Products, except Coating		

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			
X 01104	**Aluminum, total recoverable**	1 - Effluent Gross	0	--	Sample											1120.0	28 - ug/L	1	01/90 - Quarterly	GR - GRAB
					Permit Req.										<=	1100.0 MAXIMUM	28 - ug/L		01/90 - Quarterly	GR - GRAB
					Value NODI															
X 51450	**Nitrite Plus Nitrate Total**	1 - Effluent Gross	0	--	Sample											0.767	19 - mg/L	1	01/90 - Quarterly	GR - GRAB
					Permit Req.										<=	0.68 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

Parameter		Monitoring Location	Field	Type	Description	Acknowledge
Code	Name					
01104	Aluminum, total recoverable	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
51450	Nitrite Plus Nitrate Total	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

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:	TERRILLLEMKE
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:	022 External Outfall	**Discharge:**	**022-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: --

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			
01040	**Copper, dissolved [as Cu]**	1 - Effluent Gross	0	--	Sample											21.0	28 - ug/L	0	01/YR - Annual	GR - GRAB
					Permit Req.											Req Mon MAXIMUM	28 - ug/L		01/YR - Annual	GR - GRAB
					Value NODI															
01104	**Aluminum, total recoverable**	1 - Effluent Gross	0	--	Sample											755.0	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										<	0.0383	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

Parameter		Monitoring Location	Field	Type	Description	Acknowledge
Code	Name					
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:	TERRILLLEMKE
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:	022 External Outfall	**Discharge:**	**022-11** Fabricated Metal Products, except Coating		

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			
01104	**Aluminum, total recoverable**	1 - Effluent Gross	0	--	Sample											778.0	28 - ug/L	0	01/90 - Quarterly	GR - GRAB
					Permit Req.										<=	1100.0 MAXIMUM	28 - ug/L		01/90 - Quarterly	GR - GRAB
					Value NODI															
X 51450	**Nitrite Plus Nitrate Total**	1 - Effluent Gross	0	--	Sample											0.848	19 - mg/L	1	01/90 - Quarterly	GR - GRAB
					Permit Req.										<=	0.68 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

Parameter		Monitoring Location	Field	Type	Description	Acknowledge
Code	Name					
51450	Nitrite Plus Nitrate Total	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

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:	TERRILLLEMKE
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:	022 External Outfall	**Discharge:**	**022-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							7.4				7.4	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											12.0	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											79.8	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:	TERRILLLEMKE
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:	022 External Outfall	**Discharge:**	**022-11** Fabricated Metal Products, except Coating		

Report Dates & Status

Monitoring Period:	**From 10/01/22 to 12/31/22**	**DMR Due Date:**	**02/28/23**	**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			
X 01104	**Aluminum, total recoverable**	1 - Effluent Gross	0	--	Sample											1700.0	28 - ug/L	1	01/90 - Quarterly	GR - GRAB
					Permit Req.										<=	1100.0 MAXIMUM	28 - ug/L		01/90 - Quarterly	GR - GRAB
					Value NODI															
51450	**Nitrite Plus Nitrate Total**	1 - Effluent Gross	0	--	Sample											0.348	19 - mg/L	0	01/90 - Quarterly	GR - GRAB
					Permit Req.										<=	0.68 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

Parameter		Monitoring Location	Field	Type	Description	Acknowledge
Code	Name					
01104	Aluminum, total recoverable	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

Comments

LA-UR-23-21358. The average of 4 quarterly results for Nitrate plus Nitrite Nitrogen is below the benchmark therefore monitoring may be discontinued until year 4 of permit coverage per Part 4.2.2.3.a.i.

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:	2023-02-10 08:40 (Time Zone: -06:00)

Report Last Signed By

User:	TERRILLLEMKE
Name:	Terrill Lemke
E-Mail:	tlemke@lanl.gov
Date/Time:	2023-02-16 18:06 (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:	022 External Outfall	**Discharge:**	**022-P1** Railroad, Local Highway Passenger Motor Freight USPS: Indicator Monitoring: (ph,TSS,COD)		

Report Dates & Status

Monitoring Period:	**From 10/01/22 to 12/31/22**	**DMR Due Date:**	**02/28/23**	**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			
00400	**pH**	1 - Effluent Gross	0	--	Sample							6.8				6.8	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											40.4	19 - mg/L	0	01/90 - Quarterly	GR - GRAB
					Permit Req.											Req Mon MAXIMUM	19 - mg/L		01/90 - Quarterly	GR - GRAB
					Value NODI															
81017	**Chemical Oxygen Demand [COD]**	1 - Effluent Gross	0	--	Sample											133.0	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-23-21358

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:	2023-02-10 08:40 (Time Zone: -06:00)

Report Last Signed By

User:	TERRILLLEMKE
Name:	Terrill Lemke
E-Mail:	tlemke@lanl.gov
Date/Time:	2023-02-16 18:06 (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:	022 External Outfall	**Discharge:**	**022-11** Fabricated Metal Products, except Coating		

Report Dates & Status

Monitoring Period:	**From 01/01/23 to 03/31/23**	**DMR Due Date:**	**05/31/23**	**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			
01104	**Aluminum, total recoverable**	1 - Effluent Gross	0	--	Sample											1030.0	28 - ug/L	0	01/90 - Quarterly	GR - GRAB
					Permit Req.										<=	1100.0 MAXIMUM	28 - ug/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-23-24653. The average of 4 quarterly results for total recoverable Al exceeded the benchmark value triggering AIM Level 2.

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:	2023-05-02 11:00 (Time Zone: -05:00)

Report Last Signed By

User:	TERRILLLEMKE
Name:	Terrill Lemke
E-Mail:	tlemke@lanl.gov
Date/Time:	2023-05-03 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:	022 External Outfall	**Discharge:**	**022-P1** Railroad, Local Highway Passenger Motor Freight USPS: Indicator Monitoring: (ph,TSS,COD)		

Report Dates & Status

Monitoring Period:	**From 01/01/23 to 03/31/23**	**DMR Due Date:**	**05/31/23**	**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			
00400	**pH**	1 - Effluent Gross	0	--	Sample							7.23				7.23	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											23.5	19 - mg/L	0	01/90 - Quarterly	GR - GRAB
					Permit Req.											Req Mon MAXIMUM	19 - mg/L		01/90 - Quarterly	GR - GRAB
					Value NODI															
81017	**Chemical Oxygen Demand [COD]**	1 - Effluent Gross	0	--	Sample											103.0	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-23-24653

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:	2023-05-02 11:00 (Time Zone: -05:00)

Report Last Signed By

User:	TERRILLLEMKE
Name:	Terrill Lemke
E-Mail:	tlemke@lanl.gov
Date/Time:	2023-05-03 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:	022 External Outfall	**Discharge:**	**022-P1** Railroad, Local Highway Passenger Motor Freight USPS: Indicator Monitoring: (ph,TSS,COD)		

Report Dates & Status

Monitoring Period:	**From 04/01/23 to 06/30/23**	**DMR Due Date:**	**08/31/23**	**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			
00400	**pH**	1 - Effluent Gross	0	--	Sample							7.32				7.32	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											137.0	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											140.0	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-23-29227

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:	2023-08-10 16:50 (Time Zone: -05:00)

Report Last Signed By

User:	TERRILLLEMKE
Name:	Terrill Lemke
E-Mail:	tlemke@lanl.gov
Date/Time:	2023-08-15 18:24 (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:	022 External Outfall	**Discharge:**	**022-11** Fabricated Metal Products, except Coating		

Report Dates & Status

Monitoring Period:	**From 04/01/23 to 06/30/23**	**DMR Due Date:**	**08/31/23**	**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			
X 01104	**Aluminum, total recoverable**	1 - Effluent Gross	0	--	Sample										=	1120.0	28 - ug/L	1	01/90 - Quarterly	GR - GRAB
					Permit Req.										<=	1100.0 MAXIMUM	28 - ug/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

Parameter		Monitoring Location	Field	Type	Description	Acknowledge
Code	Name					
01104	Aluminum, total recoverable	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

Comments

LA-UR-23-29227

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:	2023-08-10 16:58 (Time Zone: -05:00)

Report Last Signed By

User:	TERRILLLEMKE
Name:	Terrill Lemke
E-Mail:	tlemke@lanl.gov
Date/Time:	2023-08-15 18:24 (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:	022 External Outfall	**Discharge:**	**022-IW** Impaired Water		

Report Dates & Status

Monitoring Period:	**From 07/01/22 to 06/30/23**	**DMR Due Date:**	**08/31/23**	**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			
01040	**Copper, dissolved [as Cu]**	1 - Effluent Gross	0	--	Sample											11.5	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											778.0	28 - ug/L	0	01/YR - Annual	GR - GRAB
					Permit Req.											Req Mon MAXIMUM	28 - ug/L		01/YR - Annual	GR - GRAB
					Value NODI															
39516	**Polychlorinated biphenyls [PCBs]**	1 - Effluent Gross	0	--	Sample															
					Permit Req.											Req Mon MAXIMUM	28 - ug/L		01/YR - Annual	GR - GRAB
					Value NODI											B - Below Detection Limit/No Detection				

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-23-29225

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:	2023-08-10 16:50 (Time Zone: -05:00)

Report Last Signed By

User:	TERRILLLEMKE
Name:	Terrill Lemke
E-Mail:	tlemke@lanl.gov
Date/Time:	2023-08-15 18:24 (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:	022 External Outfall	**Discharge:**	**022-P1** Railroad, Local Highway Passenger Motor Freight USPS: Indicator Monitoring: (ph,TSS,COD)		

Report Dates & Status

Monitoring Period:	**From 07/01/23 to 09/30/23**	**DMR Due Date:**	**11/30/23**	**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			
00400	**pH**	1 - Effluent Gross	0	--	Sample							7.91				7.91	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											85.5	19 - mg/L	0	01/90 - Quarterly	GR - GRAB
					Permit Req.											Req Mon MAXIMUM	19 - mg/L		01/90 - Quarterly	GR - GRAB
					Value NODI															
81017	**Chemical Oxygen Demand [COD]**	1 - Effluent Gross	0	--	Sample											53.7	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-23-31711

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:	2023-10-16 11:50 (Time Zone: -05:00)

Report Last Signed By

User:	TERRILLLEMKE
Name:	Terrill Lemke
E-Mail:	tlemke@lanl.gov
Date/Time:	2023-10-23 14:42 (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:	022 External Outfall	**Discharge:**	**022-11** Fabricated Metal Products, except Coating		

Report Dates & Status

Monitoring Period:	**From 07/01/23 to 09/30/23**	**DMR Due Date:**	**11/30/23**	**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			
X 01104	**Aluminum, total recoverable**	1 - Effluent Gross	0	--	Sample											1580.0	28 - ug/L	1	01/90 - Quarterly	GR - GRAB
					Permit Req.										<=	1100.0 MAXIMUM	28 - ug/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

Parameter		Monitoring Location	Field	Type	Description	Acknowledge
Code	Name					
01104	Aluminum, total recoverable	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

Comments

LA-UR-23-31711

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:	2023-10-16 11:50 (Time Zone: -05:00)

Report Last Signed By

User:	TERRILLLEMKE
Name:	Terrill Lemke
E-Mail:	tlemke@lanl.gov
Date/Time:	2023-10-23 14:42 (Time Zone: -05:00)

Permit

Permit ID:	NMR050013	**Major:**	☐
Permittee:	Triad National Security LLC	**Permittee Address:**	PO Box 1663 Los Alamos , NM87545
Facility:	LOS ALAMOS NATIONAL LABORATORY	**Facility Location:**	PO BOX 1663 LOS ALAMOS , NM87545
Permitted Feature:	022 - External Outfall	**Discharge:**	022-11 - Fabricated Metal Products, except Coating

Report Dates & Status

Monitoring Period:	From 10/01/23 to 12/31/23	**DMR Due Date:**	02/29/24
Status:	**NetDMR Validated**		

Considerations for Form Completion

Principal Executive Officer

First Name:		**Last Name:**	
Title:		**Telephone:**	

No Data Indicator (NODI)

Form NODI: -

Parameter		NODI	Quantity or Loading			Quality or Concentration				# of Ex.	Freq. of Analysis	Smpl. Type
Code	Name		Value 1	Value 2	Units	Value 1	Value 2	Value 3	Units			
01104	**Aluminum, total recoverable**	Smpl.										
1 - Effluent Gross												
Season: 0		Req.						<=1100.0 MAXIMUM	28 - ug/L		01/90 - Quarterly	GR - GRAB
NODI: -		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-24-20679

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:	2024-01-25 11:20 (Time Zone:-06:00)

Report Last Signed By

User:	TERRILLLEMKE
Name:	Terrill Lemke
E-Mail:	tlemke@lanl.gov
Date/Time:	2024-01-31 15:52 (Time Zone:-06:00)

Permit

Permit ID:	NMR050013	**Major:**	☐
Permittee:	Triad National Security LLC	**Permittee Address:**	PO Box 1663 Los Alamos , NM87545
Facility:	LOS ALAMOS NATIONAL LABORATORY	**Facility Location:**	PO BOX 1663 LOS ALAMOS , NM87545
Permitted Feature:	022 - External Outfall	**Discharge:**	022-P1 - Railroad, Local Highway Passenger Motor Freight USPS: Indicator Monitoring: (ph,TSS,COD)

Report Dates & Status

Monitoring Period:	From 10/01/23 to 12/31/23	**DMR Due Date:**	02/29/24
Status:	**NetDMR Validated**		

Considerations for Form Completion

Principal Executive Officer

First Name:		**Last Name:**	
Title:		**Telephone:**	

No Data Indicator (NODI)

Form NODI: -

Parameter		NODI	Quantity or Loading			Quality or Concentration				# of Ex.	Freq. of Analysis	Smpl. Type
Code	Name		Value 1	Value 2	Units	Value 1	Value 2	Value 3	Units			
00400	**pH**	Smpl.										
1 - Effluent Gross												
Season: 0		Req.				Req Mon MINIMUM		Req Mon MAXIMUM	12 - SU		01/90 - Quarterly	GR - GRAB
NODI: -		NODI				C - No Discharge		C - No Discharge				
00530	**Solids, total suspended**	Smpl.										
1 - Effluent Gross												
Season: 0		Req.						Req Mon MAXIMUM	19 - mg/L		01/90 - Quarterly	GR - GRAB
NODI: -		NODI						C - No Discharge				
81017	**Chemical Oxygen Demand [COD]**	Smpl.										
1 - Effluent Gross												
Season: 0		Req.						Req Mon MAXIMUM	19 - mg/L		01/90 - Quarterly	GR - GRAB
NODI: -		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-24-20679

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:	2024-01-25 11:20 (Time Zone:-06:00)

Report Last Signed By

User:	TERRILLLEMKE
Name:	Terrill Lemke
E-Mail:	tlemke@lanl.gov
Date/Time:	2024-01-31 15:52 (Time Zone:-06:00)

Permit

Permit ID:	NMR050013	**Major:**	☐
Permittee:	Triad National Security LLC	**Permittee Address:**	PO Box 1663 Los Alamos , NM87545
Facility:	LOS ALAMOS NATIONAL LABORATORY	**Facility Location:**	PO BOX 1663 LOS ALAMOS , NM87545
Permitted Feature:	022 - External Outfall	**Discharge:**	022-11 - Fabricated Metal Products, except Coating

Report Dates & Status

Monitoring Period:	From 01/01/24 to 03/31/24	**DMR Due Date:**	05/31/24
Status:	**NetDMR Validated**		

Considerations for Form Completion

Principal Executive Officer

First Name:		**Last Name:**	
Title:		**Telephone:**	

No Data Indicator (NODI)

Form NODI: -

Parameter		NODI	Quantity or Loading			Quality or Concentration				# of Ex.	Freq. of Analysis	Smpl. Type
Code	Name		Value 1	Value 2	Units	Value 1	Value 2	Value 3	Units			
X 01104	**Aluminum, total recoverable**	Smpl.						3360.0	28 - ug/L	1	01/90 - Quarterly	GR - GRAB
1 - Effluent Gross												
Season: 0		Req.						<=1100.0 MAXIMUM	28 - ug/L		01/90 - Quarterly	GR - GRAB
NODI: -		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

Parameter		Monitoring Location	Field	Type	Description	Acknowledge
Code	Name					
01104	Aluminum, total recoverable	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.	☑

Comments

LA-UR-24-23828. The average concentration of total recoverable Al is mathematically certain to exceed the benchmark value triggering AIM Level 3.

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:	2024-04-23 15:40 (Time Zone:-05:00)

Report Last Signed By

User:	TERRILLLEMKE
Name:	Terrill Lemke
E-Mail:	tlemke@lanl.gov
Date/Time:	2024-05-01 19:11 (Time Zone:-05:00)

Permit

Permit ID:	NMR050013	**Major:**	☐
Permittee:	Triad National Security LLC	**Permittee Address:**	PO Box 1663 Los Alamos , NM87545
Facility:	LOS ALAMOS NATIONAL LABORATORY	**Facility Location:**	PO BOX 1663 LOS ALAMOS , NM87545
Permitted Feature:	022 - External Outfall	**Discharge:**	022-P1 - Railroad, Local Highway Passenger Motor Freight USPS: Indicator Monitoring: (ph,TSS,COD)

Report Dates & Status

Monitoring Period:	From 01/01/24 to 03/31/24	**DMR Due Date:**	05/31/24
Status:	**NetDMR Validated**		

Considerations for Form Completion

Principal Executive Officer

First Name:		**Last Name:**	
Title:		**Telephone:**	

No Data Indicator (NODI)

Form NODI: -

Parameter		NODI	Quantity or Loading			Quality or Concentration				# of Ex.	Freq. of Analysis	Smpl. Type
Code	Name		Value 1	Value 2	Units	Value 1	Value 2	Value 3	Units			
00400	**pH**	Smpl.				7.6		7.6	12 - SU	0	01/90 - Quarterly	GR - GRAB
1 - Effluent Gross												
Season: 0		Req.				Req Mon MINIMUM		Req Mon MAXIMUM	12 - SU		01/90 - Quarterly	GR - GRAB
NODI: -		NODI										
00530	**Solids, total suspended**	Smpl.						326.0	19 - mg/L	0	01/90 - Quarterly	GR - GRAB
1 - Effluent Gross												
Season: 0		Req.						Req Mon MAXIMUM	19 - mg/L		01/90 - Quarterly	GR - GRAB
NODI: -		NODI										
81017	**Chemical Oxygen Demand [COD]**	Smpl.						102.0	19 - mg/L	0	01/90 - Quarterly	GR - GRAB
1 - Effluent Gross												
Season: 0		Req.						Req Mon MAXIMUM	19 - mg/L		01/90 - Quarterly	GR - GRAB
NODI: -		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-24-23828

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:	2024-04-23 15:40 (Time Zone:-05:00)

Report Last Signed By

User:	TERRILLLEMKE
Name:	Terrill Lemke
E-Mail:	tlemke@lanl.gov
Date/Time:	2024-05-01 19:11 (Time Zone:-05:00)

Permit

Permit ID:	NMR050013	**Major:**	☐
Permittee:	Triad National Security LLC	**Permittee Address:**	PO Box 1663 Los Alamos , NM87545
Facility:	LOS ALAMOS NATIONAL LABORATORY	**Facility Location:**	PO BOX 1663 LOS ALAMOS , NM87545
Permitted Feature:	022 - External Outfall	**Discharge:**	022-11 - Fabricated Metal Products, except Coating

Report Dates & Status

Monitoring Period:	From 04/01/24 to 06/30/24	**DMR Due Date:**	08/31/24
Status:	**NetDMR Validated**		

Considerations for Form Completion

Principal Executive Officer

First Name:		**Last Name:**	
Title:		**Telephone:**	

No Data Indicator (NODI)

Form NODI: -

Parameter		NODI	Quantity or Loading			Quality or Concentration				# of Ex.	Freq. of Analysis	Smpl. Type
Code	Name		Value 1	Value 2	Units	Value 1	Value 2	Value 3	Units			
01104	**Aluminum, total recoverable**	Smpl.										
1 - Effluent Gross												
Season: 0		Req.						<=1100.0 MAXIMUM	28 - ug/L		01/90 - Quarterly	GR - GRAB
NODI: -		NODI						9 - Conditional Monitoring - Not Required This Period				

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-24-27945. Monitoring for total recoverable Aluminum is temporarily paused pending completion of AIM Level 3 corrective action.

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:	2024-07-28 12:20 (Time Zone:-05:00)

Report Last Signed By

User:	TERRILLLEMKE
Name:	Terrill Lemke
E-Mail:	tlemke@lanl.gov
Date/Time:	2024-07-30 16:52 (Time Zone:-05:00)

Permit

Permit ID:	NMR050013	**Major:**	☐
Permittee:	Triad National Security LLC	**Permittee Address:**	PO Box 1663 Los Alamos , NM87545
Facility:	LOS ALAMOS NATIONAL LABORATORY	**Facility Location:**	PO BOX 1663 LOS ALAMOS , NM87545
Permitted Feature:	022 - External Outfall	**Discharge:**	022-P1 - Railroad, Local Highway Passenger Motor Freight USPS: Indicator Monitoring: (ph,TSS,COD)

Report Dates & Status

Monitoring Period:	From 04/01/24 to 06/30/24	**DMR Due Date:**	08/31/24
Status:	**NetDMR Validated**		

Considerations for Form Completion

Principal Executive Officer

First Name:		**Last Name:**	
Title:		**Telephone:**	

No Data Indicator (NODI)

Form NODI: -

Parameter		NODI	Quantity or Loading			Quality or Concentration				# of Ex.	Freq. of Analysis	Smpl. Type
Code	Name		Value 1	Value 2	Units	Value 1	Value 2	Value 3	Units			
00400	**pH**	Smpl.				8.7		8.7	12 - SU	0	01/90 - Quarterly	GR - GRAB
1 - Effluent Gross												
Season: 0		Req.				Req Mon MINIMUM		Req Mon MAXIMUM	12 - SU		01/90 - Quarterly	GR - GRAB
NODI: -		NODI										
00530	**Solids, total suspended**	Smpl.						181.0	19 - mg/L	0	01/90 - Quarterly	GR - GRAB
1 - Effluent Gross												
Season: 0		Req.						Req Mon MAXIMUM	19 - mg/L		01/90 - Quarterly	GR - GRAB
NODI: -		NODI										
81017	**Chemical Oxygen Demand [COD]**	Smpl.						69.2	19 - mg/L	0	01/90 - Quarterly	GR - GRAB
1 - Effluent Gross												
Season: 0		Req.						Req Mon MAXIMUM	19 - mg/L		01/90 - Quarterly	GR - GRAB
NODI: -		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-24-27945

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:	2024-07-28 12:20 (Time Zone:-05:00)

Report Last Signed By

User:	TERRILLLEMKE
Name:	Terrill Lemke
E-Mail:	tlemke@lanl.gov
Date/Time:	2024-07-30 16:52 (Time Zone:-05:00)

Permit

Permit ID:	NMR050013	**Major:**	☐
Permittee:	Triad National Security LLC	**Permittee Address:**	PO Box 1663 Los Alamos , NM87545
Facility:	LOS ALAMOS NATIONAL LABORATORY	**Facility Location:**	PO BOX 1663 LOS ALAMOS , NM87545
Permitted Feature:	022 - External Outfall	**Discharge:**	022-IW - Impaired Water

Report Dates & Status

Monitoring Period:	From 07/01/23 to 06/30/24	**DMR Due Date:**	08/31/24
Status:	**NetDMR Validated**		

Considerations for Form Completion

Principal Executive Officer

First Name:		**Last Name:**	
Title:		**Telephone:**	

No Data Indicator (NODI)

Form NODI: -

Parameter		NODI	Quantity or Loading			Quality or Concentration				# of Ex.	Freq. of Analysis	Smpl. Type
Code	Name		Value 1	Value 2	Units	Value 1	Value 2	Value 3	Units			
01040	**Copper, dissolved [as Cu]**	Smpl.						12.1	28 - ug/L	0	01/YR - Annual	GR - GRAB
1 - Effluent Gross												
Season: 0		Req.						Req Mon MAXIMUM	28 - ug/L		01/YR - Annual	GR - GRAB
NODI: -		NODI										
01104	**Aluminum, total recoverable**	Smpl.						1580.0	28 - ug/L	0	01/YR - Annual	GR - GRAB
1 - Effluent Gross												
Season: 0		Req.						Req Mon MAXIMUM	28 - ug/L		01/YR - Annual	GR - GRAB
NODI: -		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-24-27945

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:	2024-07-28 12:10 (Time Zone:-05:00)

Report Last Signed By

User:	TERRILLLEMKE
Name:	Terrill Lemke
E-Mail:	tlemke@lanl.gov
Date/Time:	2024-07-30 16:52 (Time Zone:-05:00)

Permit

Permit ID:	NMR050013	**Major:**	☐
Permittee:	Triad National Security LLC	**Permittee Address:**	PO Box 1663 Los Alamos , NM87545
Facility:	LOS ALAMOS NATIONAL LABORATORY	**Facility Location:**	PO BOX 1663 LOS ALAMOS , NM87545
Permitted Feature:	022 - External Outfall	**Discharge:**	022-11 - Fabricated Metal Products, except Coating

Report Dates & Status

Monitoring Period:	From 07/01/24 to 09/30/24	**DMR Due Date:**	11/30/24
Status:	**NetDMR Validated**		

Considerations for Form Completion

Principal Executive Officer

First Name:		**Last Name:**	
Title:		**Telephone:**	

No Data Indicator (NODI)

Form NODI: -

Parameter		NODI	Quantity or Loading			Quality or Concentration				# of Ex.	Freq. of Analysis	Smpl. Type
Code	Name		Value 1	Value 2	Units	Value 1	Value 2	Value 3	Units			
01104	**Aluminum, total recoverable**	Smpl.										
1 - Effluent Gross												
Season: 0		Req.						<=1100.0 MAXIMUM	28 - ug/L		01/90 - Quarterly	GR - GRAB
NODI: -		NODI						9 - Conditional Monitoring - Not Required This Period				
X 51450	**Nitrite Plus Nitrate Total**	Smpl.						1.0	19 - mg/L	1	01/90 - Quarterly	GR - GRAB
1 - Effluent Gross												
Season: 0		Req.						<=0.68 MAXIMUM	19 - mg/L		01/90 - Quarterly	GR - GRAB
NODI: -		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

Parameter		Monitoring Location	Field	Type	Description	Acknowledge
Code	Name					
51450	Nitrite Plus Nitrate Total	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.	☑

Comments

LA-UR-24-31472. Monitoring of total recoverable Aluminum is temporarily suspended pending completion of AIM Level 3 corrective action.

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:	2024-10-25 09:00 (Time Zone:-05:00)

Report Last Signed By

User:	TERRILLLEMKE
Name:	Terrill Lemke
E-Mail:	tlemke@lanl.gov
Date/Time:	2024-10-30 13:40 (Time Zone:-05:00)

Permit

Permit ID:	NMR050013	**Major:**	☐
Permittee:	Triad National Security LLC	**Permittee Address:**	PO Box 1663 Los Alamos , NM87545
Facility:	LOS ALAMOS NATIONAL LABORATORY	**Facility Location:**	PO BOX 1663 LOS ALAMOS , NM87545
Permitted Feature:	022 - External Outfall	**Discharge:**	022-P1 - Railroad, Local Highway Passenger Motor Freight USPS: Indicator Monitoring: (ph,TSS,COD)

Report Dates & Status

Monitoring Period:	From 07/01/24 to 09/30/24	**DMR Due Date:**	11/30/24
Status:	**NetDMR Validated**		

Considerations for Form Completion

Principal Executive Officer

First Name:		**Last Name:**	
Title:		**Telephone:**	

No Data Indicator (NODI)

Form NODI: -

Parameter		NODI	Quantity or Loading			Quality or Concentration				# of Ex.	Freq. of Analysis	Smpl. Type
Code	Name		Value 1	Value 2	Units	Value 1	Value 2	Value 3	Units			
00400	**pH**	Smpl.				7.89		7.89	12 - SU	0	01/90 - Quarterly	GR - GRAB
1 - Effluent Gross												
Season: 0		Req.				Req Mon MINIMUM		Req Mon MAXIMUM	12 - SU		01/90 - Quarterly	GR - GRAB
NODI: -		NODI										
00530	**Solids, total suspended**	Smpl.						154.0	19 - mg/L	0	01/90 - Quarterly	GR - GRAB
1 - Effluent Gross												
Season: 0		Req.						Req Mon MAXIMUM	19 - mg/L		01/90 - Quarterly	GR - GRAB
NODI: -		NODI										
81017	**Chemical Oxygen Demand [COD]**	Smpl.						80.3	19 - mg/L	0	01/90 - Quarterly	GR - GRAB
1 - Effluent Gross												
Season: 0		Req.						Req Mon MAXIMUM	19 - mg/L		01/90 - Quarterly	GR - GRAB
NODI: -		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-24-31472. Monitoring of total recoverable Aluminum is temporarily suspended pending completion of AIM Level 3 corrective action.

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:	2024-10-25 09:00 (Time Zone:-05:00)

Report Last Signed By

User:	TERRILLLEMKE
Name:	Terrill Lemke
E-Mail:	tlemke@lanl.gov
Date/Time:	2024-10-30 13:40 (Time Zone:-05:00)

Permit

Permit ID:	NMR050013	**Major:**	☐
Permittee:	Triad National Security LLC	**Permittee Address:**	PO Box 1663 Los Alamos , NM87545
Facility:	LOS ALAMOS NATIONAL LABORATORY	**Facility Location:**	PO BOX 1663 LOS ALAMOS , NM87545
Permitted Feature:	022 - External Outfall	**Discharge:**	022-ZC - Zinc: Water Hardness 50-74.99 mg/l

Report Dates & Status

Monitoring Period:	From 07/01/24 to 09/30/24	**DMR Due Date:**	11/30/24
Status:	**NetDMR Validated**		

Considerations for Form Completion

Principal Executive Officer

First Name:		**Last Name:**	
Title:		**Telephone:**	

No Data Indicator (NODI)

Form NODI: -

Parameter		NODI	Quantity or Loading			Quality or Concentration				# of Ex.	Freq. of Analysis	Smpl. Type
Code	Name		Value 1	Value 2	Units	Value 1	Value 2	Value 3	Units			
01090	**Zinc, dissolved [as Zn]**	Smpl.						82.0	28 - ug/L	0	01/90 - Quarterly	GR - GRAB
1 - Effluent Gross												
Season: 0		Req.						<=104.0 MAXIMUM	28 - ug/L		01/90 - Quarterly	GR - GRAB
NODI: -		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-24-31472

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:	2024-10-25 09:00 (Time Zone:-05:00)

Report Last Signed By

User:	TERRILLLEMKE
Name:	Terrill Lemke
E-Mail:	tlemke@lanl.gov
Date/Time:	2024-10-30 13:40 (Time Zone:-05:00)

ATTACHMENT 6: ANNUAL REPORTS

NPDES FORM 6100-28	EPA	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 e xceedances, 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	-	-
	042	Monitored	1	8/5/2021	None
TA-60-1 Heavy Equipment Yard	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
	025	SIDP to 022	2	7/7/2021, 10/1/2021	None
TA-60-2 Warehouse	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

NPDES FORM 6100-28	EPA	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: 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: 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 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

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, Al - 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	—	—	—	—	—	—

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	—	—	—	—	—	—

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, Al – AIM Level 1

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.

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
	084	Monitored	0	-	None
TA-60-0001 Heavy Equipment Yard	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
	025	SIDP to 022	4	1/10/22, 6/20/22, 7/5/22, 10/3/22	None
TA-60-0002 Warehouse	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. 2040-0004 Expires on 07/31/2026

This collection of information is approved by OMB under the Paperwork Reduction Act, 44 U.S.C. 3501 et seq. (OMB Control No. 2040-0004). Responses to this collection of information are mandatory in accordance with this permit and EPA NPDES regulations (40 CFR 122.41(h)). An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB control number. The public reporting and recordkeeping burden for this collection of information is estimated to average 1 hour per response. Send comments on the Agency's need for this information, the accuracy of the provided burden estimates and any suggested methods for minimizing respondent burden to the Regulatory Support Division Director, U.S. Environmental Protection Agency (2821T), 1200 Pennsylvania Ave., NW, Washington, D.C. 20460. Include the OMB control number in any correspondence. Do not send the completed form to this address.

Permit Information

Report Year: 2023

Reporting Period: 01/01/2023 to 12/31/2023

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 to the schedules identified in the site-specific Stormwater Pollution Prevention Plans (SWPPPs). The 38 sites that qualify for a conditional exclusion for no exposure were inspected between November 01 and December 13, 2023. 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, (5) benchmark exceedances (AIM triggering events), and AIM Level at the end of the reporting period. 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
2023 Annual Report Tables 1 and 2 FINAL 1-22-2024.docx (arptAttachment/864431)	01/22/2024	35.53 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: 01/30/2024 10:58 AM ET

Table 1. Summary of Routine Facility Inspections, Other Walkdowns and Associated Corrective Actions

Facility	Status	Required/ Recommended Inspection Frequency	Routine Facility Inspections and Other Walkdowns Conducted Between 1/1/2023 and 12/31/2023	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	11/16/23	—	—	—	—	—	—
TA-03-0029 Machine Shop	No Exposure	Annually	1	11/16/23	—	1	—	—	—	—
TA-03-0030 Warehouse	No Exposure	Annually	6	1/23/23, 3/27/23, 8/14/23, 8/15/23, 9/8/23, 11/7/23	5	—	—	—	—	—
TA-03-0032 Metal Shop	No Exposure	Annually	1	11/22/23	1	—	1	—	—	—
TA-03-0034 Metal Shop	No Exposure	Annually	1	11/22/23	—	—	1	—	—	—
TA-03-0038 Metal Fabrication Shops	Active	Monthly	13	1/24/23, 2/22/23, 3/21/23, 4/10/23, 4/11/23, 5/18/23, 6/14/23, 7/18/23, 8/24/23, 9/20/23, 10/25/23, 11/16/23, 12/11/23	1	1	2	—	0	Zn - Baseline until Year 4, NO3+NO2-N - AIM Level 1, Al - AIM Level 2
TA-03-0039 & 0102 Metal Shop	No Exposure	Annually	3	4/13/23, 5/15/23, 11/22/23	3	1	2	—	—	—
TA-03-0040, Room 131S Machine Shop	No Exposure	Annually	2	8/1/23, 11/22/23	—	—	1	—	—	—
TA-03-0066 Sigma Complex	No Exposure	Annually	7	6/1/23, 6/29/23, 8/7/23, 9/19/23, 11/6/23, 11/8/23, 11/22/23	3	—	8	—	—	—
TA-03-2206 Warehouse	No Exposure	Annually	1	11/16/23	—	—	1	—	—	—
TA-09-0028 Heavy Equipment Maintenance	No Exposure	Annually	1	11/8/23	—	—	—	—	—	—
TA-09-0214 Metal Fabrication Shop	Active	Monthly	14	1/31/23, 2/27/23, 3/30/23, 4/20/23, 5/22/23, 7/3/23, 7/25/23, 8/15/23, 8/17/23, 9/20/23, 9/26/23, 10/30/23, 11/22/23, 12/6/23	1	1	3	—	0	Baseline
TA-14-0023 OBOD TSD (Burn Cage)	No Exposure	Annually	1	11/8/23	—	—	—	—	—	—
TA-15-0185 (PHERMEX)	No Exposure	Annually	1	11/8/23	—	—	—	—	—	—

Facility	Status	Required/ Recommended Inspection Frequency	Routine Facility Inspections and Other Walkdowns Conducted Between 1/1/2023 and 12/31/2023	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	11/8/23	—	—	2	—	—	—
TA-16 Stockpile Area	Active	Quarterly	4	3/30/23, 7/18/23, 9/19/23, 12/5/23	—	—	1	—	—	N/A
TA-22-0052 Machine Shop	No Exposure	Annually	1	11/8/23	—	1	—	—	—	—
TA-33-0039 Machine Shop	No Exposure	Annually	1	03/27/23	—	—	1	—	—	—
TA-33-0113 Machine Shop	No Exposure	Annually	1	12/13/23	—	—	—	—	—	—
TA-35-0002 Machine Shop	No Exposure	Annually	1	11/21/23	—	—	—	—	—	—
TA-35-0125 Machine Shop	No Exposure	Annually	3	3/28/23, 6/12/23, 11/21/23	—	—	2	—	—	—
TA-35-0213 Target Fabrication Facility	No Exposure	Annually	2	11/16/23, 11/21/23	—	—	1	—	—	—
TA-46-0031 Machine Shop	No Exposure	Annually	2	8/1/23, 11/21/23	—	—	3	—	—	—
TA-46-0077 Machine Shop	No Exposure	Annually	1	11/21/23	—	—	—	—	—	—
TA-46-0624 Warehouse	No Exposure	Annually	1	11/16/23	—	—	5	—	—	—
TA-48-0008 Machine Shop	No Exposure	Annually	1	11/21/23	—	—	—	—	—	—
TA-50-0054 Machine Shop	No Exposure	Annually	2	11/15/23, 11/21/23	—	—	1	—	—	—
TA-50-0069 WCRRF	No Exposure	Annually	1	11/16/23	—	—	1	—	—	—
TA-53-0002 Machine Shop	No Exposure	Annually	1	11/1/23	—	—	—	—	—	—
TA-53-0016/0726 Machine Shop	No Exposure	Annually	1	11/1/23	—	—	1	—	—	—
TA-53-0026 Machine Shop	No Exposure	Annually	1	11/1/23	—	1	1	—	—	—
TA-54-0038 Indoor TSD	No Exposure	Annually	1	11/16/23	—	—	—	—	—	—
TA-54-0038 Outdoor TSD	No Exposure	Annually	1	11/16/23	—	1	2	—	—	—
TA-55 PF-0004 Indoor TSD	No Exposure	Annually	1	11/29/23	—	—	4	—	—	—
TA-55-0005 Warehouse	No Exposure	Annually	1	11/29/23	—	—	—	—	—	—
TA-55-0268 Warehouse	No Exposure	Annually	1	11/29/23	—	—	—	—	—	—
TA-55-0314 Warehouse	No Exposure	Annually	1	11/29/23	—	—	—	—	—	—

Facility	Status	Required/ Recommended Inspection Frequency	Routine Facility Inspections and Other Walkdowns Conducted Between 1/1/2023 and 12/31/2023	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-55-0355 TSD	No Exposure	Annually	1	11/29/23	—	—	1	—	—	—
TA-55-0430 Metal Shop	No Exposure	Annually	1	11/29/23	—	—	—	—	—	—
TA-55-0432 Warehouse	No Exposure	Annually	1	11/29/23	—	—	—	—	—	—
TA-55 Outdoor TSD	No Exposure	Annually	1	11/29/23	—	—	—	—	—	—
TA-60 Asphalt Batch Plant	Active	Monthly	12	1/9/23, 2/2/23, 3/1/23, 4/5/23, 5/8/23, 6/12/23, 7/10/23, 8/8/23, 9/8/23, 10/5/23, 11/6/23, 12/19/23	1	—	—	—	0	Baseline
TA-60 Material Recycling Facility	Active	Monthly	15	1/10/23, 2/6/23, 3/7/23, 4/10/23, 5/16/23, 6/13/23, 7/13/23, 8/14/23, 8/25/23, 9/19/23, 10/16/23, 10/18/23, 11/6/23, 12/20/23, 12/22/23	5	1	1	—	—	N/A
TA-60 Roads and Grounds and TA-61 Asphalt Staging Area	Active	Monthly	15	1/13/23, 2/9/23, 3/27/23, 4/25/23, 5/10/23, 5/30/23, 6/28/23, 7/28/23, 8/9/23, 8/28/23, 9/20/23, 10/20/23, 11/7/23, 11/17/23, 12/21/23	5	3	19	—	—	N/A
TA-60-0001 Heavy Equipment Yard	Active	Monthly	18	1/25/23, 2/21/23, 2/23/23, 3/27/23, 4/5/23, 4/24/23, 4/28/23, 5/18/23, 6/9/23, 6/27/23, 7/20/23, 8/29/23, 9/14/23, 10/27/23, 11/9/23, 12/11/23, 12/12/23, 12/18/23	11	4	14	—	1	Zn and NO3+NO2-N – Baseline until Year 4, Al – AIM Level 2
TA-60-0002 Warehouse	Active	Monthly	15	1/19/23, 2/14/23, 3/23/23, 4/12/23, 5/4/23, 5/16/23, 5/24/23, 6/21/23, 7/18/23, 8/21/23, 9/19/23, 10/11/23, 11/15/23, 12/19/23	3	2	2	—	—	N/A
TA-63 Transuranic Waste Facility TSDs	No Exposure	Annually	2	9/21/23, 11/16/23	1	—	1	—	—	—

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.

Table 2. Summary of Quarterly Visual Assessments

Facility	Outfall	Outfall Type	Visual Assessments Performed between 1/1/2023 and 12/31/2023	Visual Assessment Dates	Evidence of Pollutants Observed
TA-03-0038 Metal Fabrication Shops	076	Monitored	2	5/31/23, 7/27/2023	None
	077	Monitored	0	-	None
TA-09-0214 Metal Fabrication Shop	079	Monitored	0	-	None
TA-16 Stockpile Area	078	Monitored	0	-	None
TA-60 Asphalt Batch Plant	043	Monitored	0	-	None
TA-60 Material Recycling Facility	029	Monitored	3	1/4/23, 5/16/23, 7/27/23	None
TA-60 Roads and Grounds and TA-61 Asphalt Staging Area	031	Monitored	1	8/29/23	None
	030	SIDP to 031	4	2/23/23, 5/17/23, 8/9/23, 10/3/23	None
	032	Monitored	3	3/3/23, 5/31/23, 8/8/23	None
	033	SIDP to 032	4	2/8/23, 5/20/23, 8/9/23, 10/3/23	None
	034	SIDP to 032	4	2/8/23, 5/17/23, 8/9/23, 10/3/23	None
	035	SIDP to 032	4	2/8/23, 5/20/23, 8/9/23, 10/3/23	None
	037	Monitored	0	-	None
	039	Monitored	0	-	None
	042	Monitored	3	3/9/23, 9/12/23, 12/22/23	None
	084	Monitored	0	-	None
TA-60-0001 Heavy Equipment Yard	022	Monitored	3	3/3/23, 5/16/23, 8/8/23	None
	021	SIDP to 022	4	1/5/23, 5/16/23, 7/24/23, 10/3/23	None
	023	SIDP to 022	4	1/5/23, 5/16/23, 7/28/23, 10/3/23	None
	024	SIDP to 022	4	1/5/23, 5/16/23, 7/24/23, 10/3/23	None
	025	SIDP to 022	4	1/5/23, 5/16/23, 7/24/23, 10/3/23	None
TA-60-0002 Warehouse	026	Monitored	4	1/4/23, 5/15/23, 7/25/23, 10/3/23	None
	027	SIDP to 026	4	1/5/23, 5/16/23, 7/28/23, 10/3/23	None
	028	SIDP to 026	4	1/5/23, 5/16/23, 7/24/23, 10/3/23	None
	075	Monitored	3	2/9/23, 5/22/23, 8/8/23	None

TA = Technical Area
SIDP = Substantially Identical Discharge Point

2024 MSGP Annual Report

1. 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 9 active industrial sites that operate under 5 different Sectors (A, D, N, P, and AA). Permit coverage became effective on June 25, 2021. All 9 active sites were inspected according to the schedules identified in the site-specific Stormwater Pollution Prevention Plans (SWPPPs). The 38 sites that qualify for a conditional exclusion for no exposure were inspected between September 09 and November 21, 2024. A summary of routine facility inspections, other walkdowns, and associated corrective actions are included in Table 1 (attached).

3. 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, (5) benchmark exceedances (AIM triggering events), and AIM Level at the end of the reporting period. All corrective actions were completed per the schedule provided in Part 5.1.3. LANL is in compliance with the permit.

Table 1. Summary of Routine Facility Inspections, Other Walkdowns and Associated Corrective Actions

Facility	Status	Required/ Recommended Inspection Frequency	Routine Facility Inspections and Other Walkdowns Conducted Between 1/1/2024 and 12/31/2024	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	11/21/24	—	—	—	—	—	—
TA-03-0029 Machine Shop	No Exposure	Annually	1	11/21/24	—	—	—	—	—	—
TA-03-0030 Warehouse	No Exposure	Annually	4	1/2/24, 4/10/24, 10/1/24, 10/30/24	3	—	—	—	—	—
TA-03-0032 Metal Shop	No Exposure	Annually	3	2/22/24, 9/4/24, 9/9/24	—	—	2	—	—	—
TA-03-0034 Metal Shop	No Exposure	Annually	3	4/11/24, 9/4/24, 9/9/24	1	—	1	—	—	—
TA-03-0038 Metal Fabrication Shops	Active	Monthly	12	1/30/24, 2/20/24, 3/14/24, 4/11/24, 5/16/24, 6/25/24, 7/23/24, 8/26/24, 9/25/24, 10/29/24, 11/25/24, 12/17/24	—	2	—	—	—	Zn - Baseline, NO3+NO2-N - AIM Level 1, Al - AIM Level 2

Facility	Status	Required/ Recommended Inspection Frequency	Routine Facility Inspections and Other Walkdowns Conducted Between 1/1/2024 and 12/31/2024	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-03-0039 & 0102 Metal Shop	No Exposure	Annually	4	1/24/24, 3/11/24, 6/19/24, 9/24/24	1	—	3	—	—	—
TA-03-0040, Room 131S Machine Shop	No Exposure	Annually	2	2/22/24, 9/9/24	—	—	1	—	—	—
TA-03-0066 Sigma Complex	No Exposure	Annually	10	1/8/24, 1/10/24, 2/21/24, 3/7/24, 3/19/24, 4/25/24, 5/20/24, 7/12/24, 9/3/24, 9/19/24	5	—	9	—	—	—
TA-03-2206 Warehouse	No Exposure	Annually	1	11/21/24	—	—	—	—	—	—
TA-09-0028 Heavy Equipment Maintenance	No Exposure	Annually	1	9/24/24	—	—	—	—	—	—
TA-09-0214 Metal Fabrication Shop	Active	Monthly	13	1/30/24, 2/28/24, 3/26/24, 4/30/24, 5/28/24, 6/13/24 6/28/24, 7/31/24, 8/29/24, 9/30/24, 10/31/24, 11/21/24, 12/16/24	2	—	—	—	—	Baseline
TA-14-0023 OBOD TSD (Burn Cage)	No Exposure	Annually	1	9/24/24	—	—	—	—	—	—
TA-15-0185 (PHERMEX)	No Exposure	Annually	1	9/24/24	—	—	—	—	—	—
TA-15-0313 Machine Shop	No Exposure	Annually	1	9/24/24	—	—	—	—	—	—
TA-16 Stockpile Area	Active	Quarterly	4	3/26/24, 6/28/24, 9/30/24, 12/16/24	—	—	—	—	—	N/A
TA-22-0052 Machine Shop	No Exposure	Annually	1	9/24/24	—	—	—	—	—	—
TA-33-0113 Machine Shop	No Exposure	Annually	1	9/18/24	—	—	—	—	—	—
TA-35-0002 Machine Shop	No Exposure	Annually	2	5/1/24, 9/10/24	—	—	1	—	—	—
TA-35-0125 Machine Shop	No Exposure	Annually	1	9/10/24	—	—	—	—	—	—
TA-35-0213 Target Fabrication Facility	No Exposure	Annually	2	9/3/24, 9/10/24	—	—	2	—	—	—
TA-46-0031 Machine Shop	No Exposure	Annually	2	4/25/24, 9/10/24	—	—	3	—	—	—
TA-46-0077 Machine Shop	No Exposure	Annually	1	9/10/24	—	—	—	—	—	—

Facility	Status	Required/ Recommended Inspection Frequency	Routine Facility Inspections and Other Walkdowns Conducted Between 1/1/2024 and 12/31/2024	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-46-0624 Warehouse	No Exposure	Annually	1	10/30/24	—	—	—	—	—	—
TA-48-0008 Machine Shop	No Exposure	Annually	3	1/2/24, 1/17/24, 9/10/24	2	—	—	—	—	—
TA-50-0054 Machine Shop	No Exposure	Annually	1	9/10/24	—	—	—	—	—	—
TA-50-0069 WCRRF	No Exposure	Annually	1	11/21/24	—	—	—	—	—	—
TA-53-0002 Machine Shop	No Exposure	Annually	1	10/28/24	—	—	—	—	—	—
TA-53-0016/0726 Machine Shop	No Exposure	Annually	1	10/28/24	—	—	1	—	—	—
TA-53-0026 Machine Shop	No Exposure	Annually	1	10/28/24	—	—	—	—	—	—
TA-54-0038 Indoor TSD	No Exposure	Annually	1	11/21/24	—	—	—	—	—	—
TA-54-0038 Outdoor TSD	No Exposure	Annually	1	11/21/24	—	—	—	—	—	—
TA-55 Outdoor TSD	No Exposure	Annually	1	11/21/24	—	—	—	—	—	—
TA-55-0004 Indoor TSD	No Exposure	Annually	1	11/21/24	—	—	—	—	—	—
TA-55-0005 Warehouse	No Exposure	Annually	1	11/21/24	—	—	—	—	—	—
TA-55-0268 Warehouse	No Exposure	Annually	1	11/21/24	—	—	1	—	—	—
TA-55-0314 Warehouse	No Exposure	Annually	1	11/21/24	—	—	—	—	—	—
TA-55-0355 TSD	No Exposure	Annually	1	11/21/24	—	—	—	—	—	—
TA-55-0430 Metal Shop	No Exposure	Annually	1	11/21/24	—	—	—	—	—	—
TA-55-0432 Warehouse	No Exposure	Annually	1	11/21/24	—	—	—	—	—	—
TA-60 Asphalt Batch Plant	Active	Monthly	14	1/9/24, 2/8/24, 3/4/24, 3/11/24, 4/1/24, 4/30/24, 5/7/24, 6/10/24, 7/15/24, 8/12/24, 9/4/24, 10/14/24, 11/04/24, 12/11/24	2	—	1	—	—	Baseline
TA-60 Material Recycling Facility	Active	Monthly	13	1/8/24, 2/12/24, 3/19/24, 4/11/24, 4/16/24, 5/20/24, 6/18/24, 7/16/24, 8/19/24, 9/9/24, 10/22/24, 11/12/24, 12/17/24	1	1	—	—	—	N/A

Facility	Status	Required/ Recommended Inspection Frequency	Routine Facility Inspections and Other Walkdowns Conducted Between 1/1/2024 and 12/31/2024	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 Roads and Grounds and TA-61 Asphalt Staging Area	Active	Monthly	17	1/10/24, 2/23/24, 3/17/24, 3/22/24, 4/16/24, 4/19/24, 5/9/24, 5/28/24, 6/27/24, 7/29/24, 8/12/24, 8/26/24, 9/24/24, 10/28/24, 11/13/24, 11/21/24, 12/19/24	6	2	19	—	—	N/A
TA-60-0001 Heavy Equipment Yard	Active	Monthly	18	1/24/24, 2/21/24, 2/22/24, 3/18/24, 4/1/24, 4/16/24, 5/21/24, 5/28/24, 6/17/24, 6/25/24, 7/24/24, 8/21/24, 9/26/24, 10/9/24, 10/22/24, 11/21/24, 12/17/24, 12/19/24	9	5	12	—	1	Zn and NO3+NO2-N – Baseline, Al – AIM Level 3
TA-60-0002 Warehouse	Active	Monthly	14	1/22/24, 1/29/24, 2/26/24, 3/20/24, 4/15/24, 5/21/24, 6/20/24, 7/24/24, 8/21/24, 8/26/24, 9/18/24, 10/29/24, 11/21/24, 12/18/24	2	2	—	—	—	N/A
TA-63 Transuranic Waste Facility TSDs	No Exposure	Annually	1	11/21/24	—	—	—	—	—	—
TA-69 Wood Yard[1]	Active	Quarterly	2	8/1/24, 11/12/24	—	—	—	—	—	Baseline

[1]New facility opened in July 2024.

TA = Technical Area
TSD = Treatment, storage and disposal
WCRRF = Waste Characterization, Reduction, and Repackaging Facility
AIM = Additional Implementation Measures
N/A = Not applicable. Sector-specific requirements do not include benchmark monitoring.

2. 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.

Table 2. Summary of Quarterly Visual Assessments

Facility	Outfall	Outfall Type	Visual Assessments Performed between 1/1/2024 and 12/31/2024	Visual Assessment Dates	Evidence of Pollutants Observed
TA-03-0038 Metal Fabrication Shops	076	Monitored	2	6/11/24, 7/18/24	None
	077	Monitored	0	—	None
TA-09-0214 Metal Fabrication Shop	079	Monitored	0	—	None
TA-16 Stockpile Area	078	Monitored	1	9/13/24	None
TA-60 Asphalt Batch Plant	043	Monitored	0	—	None
TA-60 Material Recycling Facility	029	Monitored	4	1/26/24, 4/2/24, 7/16/24, 11/6/24	None
TA-60 Roads and Grounds and TA-61 Asphalt Staging Area	031	Monitored	3	7/1/24, 7/2/24, 10/23/24	None
	030	SIDP to 031	4	3/11/24, 4/2/24, 7/16/24, 10/23/24	None
	032	Monitored	4	2/2/24, 5/16/24, 7/16/24, 10/23/24	None
	033	SIDP to 032	4	3/11/24, 4/2/24, 7/16/24, 10/23/24	None
	034	SIDP to 032	4	3/11/24, 4/2/24, 7/16/24, 10/23/24	None
	035	SIDP to 032	4	3/11/24, 4/2/24, 7/16/24, 10/23/24	None
	037	Monitored	2	7/18/24, 10/23/24	None
	039	Monitored	0	-	None
	042	Monitored	4	2/2/24, 5/16/24, 7/2/24, 10/23/24	None
	084	Monitored	2	3/18/24, 7/2/24	None
TA-60-0001 Heavy Equipment Yard	022	Monitored	4	2/2/24, 5/14/24, 7/18/24, 11/6/24	None
	021	SIDP to 022	4	1/8/24, 4/1/24, 7/2/24, 10/21/24	None
	023	SIDP to 022	4	1/16/24, 4/1/24, 7/2/24, 10/21/24	None
	024	SIDP to 022	4	1/8/24, 4/1/24, 7/2/24, 10/21/24	Oil Sheen 4/1/24
	025	SIDP to 022	4	1/8/24, 4/1/24, 7/2/24, 10/21/24	None
TA-60-0002 Warehouse	026	Monitored	4	1/26/24, 4/2/24, 7/2/24, 11/6/24	None
	027	SIDP to 026	4	1/8/24, 5/13/24. 7/2/24, 10/21/24	None
	028	SIDP to 026	4	1/8/24, 4/1/24, 7/2/24, 10/21/24	None
	075	Monitored	3	2/15/24, 6/11/24, 7/2/24	None
TA-69 Wood Yard	085	Monitored	2	7/19/24, 10/23/24	None

TA = Technical Area
SIDP = Substantially Identical Discharge Point

ATTACHMENT 7: ROUTINE FACILITY INSPECTIONS

Los Alamos National Laboratory

Work Order MSGP-RI-65011
MSGP Routine Inspection
Printed 7/27/2021 - 9:26 AM

Maintenance Details

Requested: 7/1/2021 5:37:00 PM
Procedure: MSGP Routine Facility Inspection (EPC-CP-QP-2108 R0 Form 1)
Last PM: 6/11/2021
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
RG121.9
TA-60-1 Heavy Equipment Yard

Contact:
Phone:

Tasks

#	Description	Meas.	No	N/A	Yes
	Weather Information				
20	Describe the weather at time of inspection and document the temperature (F°).		☐	☐	☑
	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.		☐	☐	☑
50	If "No" has a CAR been previously initiated for this new discharge?		☐	☑	☐
60	Is the facility free of discharge of pollutants at the time of inspection? If "No" describe.		☐	☐	☑
70	Is the facility free of evidence of, or the potential for, pollutants entering the drainage system. If "No" describe.		☐	☐	☑
	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 [022]** Free of Evidence of Erosion? If "No", describe.		☐	☐	☑
100	**Monitored Outfall [022]** Flow Dissipation Devices Operating Effectively? If "No", describe.		☐	☐	☑
110	**Monitored Outfall [022]** Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		☐	☐	☑
120	**Monitored Outfall [022]** Free of any unauthorized non-stormwater discharges? If "No" describe.		☐	☐	☑
130	**Substantially Identical Outfall [021]** Free of Evidence of Erosion? If "No", describe.		☐	☐	☑
140	**Substantially Identical Outfall [021]** Flow Dissipation Devices Operating Effectively? If "No", describe.		☐	☐	☑
150	**Substantially Identical Outfall [021]** Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		☐	☐	☑
160	**Substantially Identical Outfall [021]** Free of any unauthorized non-stormwater discharges? If "No" describe.		☐	☐	☑
170	**Substantially Identical Outfall [023]** Free of Evidence of Erosion? If "No", describe.		☐	☐	☑
180	**Substantially Identical Outfall [023]** Flow Dissipation Devices Operating Effectively? If "No", describe.		☐	☐	☑
190	**Substantially Identical Outfall [023]** Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		☐	☐	☑
200	**Substantially Identical Outfall [023]** Free of any unauthorized non-stormwater discharges? If "No" describe.		☐	☐	☑
210	**Substantially Identical Outfall [024]** Free of Evidence of Erosion? If "No", describe.		☐	☐	☑
220	**Substantially Identical Outfall [024]** Flow Dissipation Devices Operating Effectively? If "No", describe.		☐	☐	☑
230	**Substantially Identical Outfall [024]** Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		☐	☐	☑
240	**Substantially Identical Outfall [024]** Free of any unauthorized non-stormwater discharges? If "No" describe.		☐	☐	☑
250	**Substantially Identical Outfall [025]** Free of Evidence of Erosion? If "No", describe.		☐	☐	☑

260	**Substantially Identical Outfall [025]** Flow Dissipation Devices Operating Effectively? If "No", describe.		☐	☐	☑
270	**Substantially Identical Outfall [025]** Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		☐	☐	☑
280	**Substantially Identical Outfall [025]** Free of any unauthorized non-stormwater discharges? If "No" describe.		☐	☐	☑

Control Measures (identify needed maintenance and repairs, failed control measures that need replacment, or a description of corrective actions in relevant task comments).

300	**Asphalt Berm [6000403040027]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
310	**Asphalt Berm [6000403040028]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
320	**Asphalt Berm [6000403040029]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
330	**Asphalt Berm [6000403040047]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
340	**Gravel Bags [6000403100061]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
350	**Gravel Bags [6000403100095]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. **Comments: See CA # 1991: Gravel Bags [6000403100095} around outfall 23 in the lower east yard are showing signs of breaking open and need replacing. They appear functional at the moment but should be replaced so spilled contents don't impact the drop inlet.**		☒	☐	☐
360	**Concrete/Asphalt Channel/Swale [6000404020031]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
370	**Concrete/Asphalt Channel/Swale [6000404020032]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
380	**Eco-Block [6000403110060]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
390	**Rock Channel/Swale [6000404030023]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
400	**Rock Channel/Swale [6000404030043]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
410	**Rock Channel/Swale [6000404030073]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
420	**Rip Rap [6000404060002]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
430	**Rip Rap [6000404060039]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
440	**Earthen Channel/Swale [6000404010033]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
450	**Earthen Channel/Swale [6000404010034]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
460	**Gabion Swale [6000404090042]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
470	**Rock Check Dam [6000406010010]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
480	**Rock Check Dam [6000406010011]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
490	**Rock Check Dam [6000406010012]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
500	**Rock Check Dam [6000406010013]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
510	**Rock Check Dam [6000406010014]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
520	**Rock Check Dam [6000406010015]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
530	**Rock Check Dam [6000406010016]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
540	**Rock Check Dam [6000406010017]** Control Measure is operating effectively? If "No"		☐	☐	☑

	describe condition & need for Maintenance, Repair, or Replacement.				
550	**Rock Check Dam [6000406010018]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
560	**Rock Check Dam [6000406010019]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
570	**Rock Check Dam [6000406010020]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
580	**Rock Check Dam [6000406010021]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
590	**Rock Check Dam [6000406010022]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
600	**Rock Check Dam [6000406010052]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
610	**Rock Check Dam [6000406010053]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
620	**Rock Check Dam [6000406010054]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
630	**Rock Check Dam [6000406010055]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
640	**Rock Check Dam [6000406010056]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
650	**Rock Check Dam [6000406010057]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
660	**Rock Check Dam [6000406010058]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
670	**Rock Check Dam [6000406010074]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
680	**Rock Check Dam [6000406010075]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
690	**Rock Check Dam [6000406010076]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
700	**Rock Check Dam [6000406010077]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
710	**Rock Check Dam [6000406010098]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
720	**Rock Check Dam [6000406010099]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
730	**Gabion [6000407010035]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
740	**Gabion [6000407010036]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
750	**Gabion [6000407010037]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
760	**Gabion [6000407010038]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
770	**Trench Drain [6000409040046]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
780	**Drop inlet with filters [6000409020096]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
790	**Drop Inlet with Petro-Plug [6000409010040]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
800	**EnviroSoxx w/ MetalLoxx [6000403200086]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
810	**EnviroSoxx w/ MetalLoxx [6000403200087]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
820	**EnviroSoxx w/ MetalLoxx [6000403200088]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
830	**EnviroSoxx w/ MetalLoxx [6000403200090]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
840	**EnviroSoxx w/ MetalLoxx [6000403200091]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑

850	**EnviroSoxx w/ MetalLoxx [6000403200092]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
860	**EnviroSoxx w/ MetalLoxx [6000403200093]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
870	**EnviroSoxx w/ MetalLoxx [6000403200094]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
880	**TRM-Lined Swale [6000404080068]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
890	**TRM-Lined Swale [6000404080069]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
	Area/Activity exposed to stormwater (identify needed mainteance 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. **Comments: The 60-0220 tire shed canopy has been converted to metal storage recently.**		☐	☐	☑
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. **Comments: Normal housekeeping measures were being conducted today (removing unused pallets, walking perimeters etc)**		☐	☐	☑
1060	Leaks and spills: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
1070	**Sector P [60004-P]** 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 Report

Completed: 7/23/2021 11:30:00 PM

Report: Jacob Knight, DEP

Signature / Name	Date	Signature / Name	Date
J Knight	7/23/2021		

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 Ops Mgr. UI

Signature: Phillip Ulibarri Date: 8/10/21

Los Alamos National Laboratory

Work Order MSGP-RI-65113
MSGP Routine Inspection
Printed 8/30/2021 - 4:28 PM

Maintenance Details

Requested: 8/2/2021 9:41:00 AM
Procedure: MSGP Routine Facility Inspection (EPC-CP-QP-2108 R0 Form 1)
Last PM: 7/23/2021
Project: Routine Facility Inspections August 2021 (P-MSGP-RI-5510)
Reason: 2021 August Inspections

Target: 8/31/2021
Priority/Type: Normal / Inspection
Department: Utilities and Infrastructure

MSGP Program
RG121.9
TA-60-1 Heavy Equipment Yard

Contact:
Phone:

Tasks

#	Description	Meas.	No	N/A	Yes
	Weather Information				
20	Describe the weather at time of inspection and document the temperature (F°). **Comments: Mostly sunny and 81 degrees F.**		☐	☐	☑
	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.		☐	☐	☑
50	If "No" has a CAR been previously initiated for this new discharge?		☐	☑	☐
60	Is the facility free of discharge of pollutants at the time of inspection? If "No" describe.		☐	☐	☑
70	Is the facility free of evidence of, or the potential for, pollutants entering the drainage system. If "No" describe.		☐	☐	☑
	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 [022]** Free of Evidence of Erosion? If "No", describe.		☐	☐	☑
100	**Monitored Outfall [022]** Flow Dissipation Devices Operating Effectively? If "No", describe.		☐	☐	☑
110	**Monitored Outfall [022]** Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		☐	☐	☑
120	**Monitored Outfall [022]** Free of any unauthorized non-stormwater discharges? If "No" describe.		☐	☐	☑
130	**Substantially Identical Outfall [021]** Free of Evidence of Erosion? If "No", describe.		☐	☐	☑
140	**Substantially Identical Outfall [021]** Flow Dissipation Devices Operating Effectively? If "No", describe.		☐	☐	☑
150	**Substantially Identical Outfall [021]** Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		☐	☐	☑
160	**Substantially Identical Outfall [021]** Free of any unauthorized non-stormwater discharges? If "No" describe.		☐	☐	☑
170	**Substantially Identical Outfall [023]** Free of Evidence of Erosion? If "No", describe.		☐	☐	☑
180	**Substantially Identical Outfall [023]** Flow Dissipation Devices Operating Effectively? If "No", describe.		☐	☐	☑
190	**Substantially Identical Outfall [023]** Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		☐	☐	☑
200	**Substantially Identical Outfall [023]** Free of any unauthorized non-stormwater discharges? If "No" describe.		☐	☐	☑
210	**Substantially Identical Outfall [024]** Free of Evidence of Erosion? If "No", describe.		☐	☐	☑
220	**Substantially Identical Outfall [024]** Flow Dissipation Devices Operating Effectively? If "No", describe.		☐	☐	☑
230	**Substantially Identical Outfall [024]** Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		☐	☐	☑
240	**Substantially Identical Outfall [024]** Free of any unauthorized non-stormwater		☐	☐	☑

	discharges? If "No" describe.				
250	**Substantially Identical Outfall [025]** Free of Evidence of Erosion? If "No", describe.		☐	☐	☑
260	**Substantially Identical Outfall [025]** Flow Dissipation Devices Operating Effectively? If "No", describe.		☐	☐	☑
270	**Substantially Identical Outfall [025]** Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		☐	☐	☑
280	**Substantially Identical Outfall [025]** Free of any unauthorized non-stormwater discharges? If "No" describe.		☐	☐	☑

Control Measures (identify needed maintenance and repairs, failed control measures that need replacment, or a description of corrective actions in relevant task comments).

300	**Asphalt Berm [6000403040027]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
310	**Asphalt Berm [6000403040028]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
320	**Asphalt Berm [6000403040029]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
330	**Asphalt Berm [6000403040047]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
340	**Gravel Bags [6000403100061]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
350	**Gravel Bags [6000403100095]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
360	**Concrete/Asphalt Channel/Swale [6000404020031]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
370	**Concrete/Asphalt Channel/Swale [6000404020032]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
380	**Eco-Block [6000403110060]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
390	**Rock Channel/Swale [6000404030023]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
400	**Rock Channel/Swale [6000404030043]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
410	**Rock Channel/Swale [6000404030073]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
420	**Rip Rap [6000404060002]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
430	**Rip Rap [6000404060039]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
440	**Earthen Channel/Swale [6000404010033]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
450	**Earthen Channel/Swale [6000404010034]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
460	**Gabion Swale [6000404090042]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
470	**Rock Check Dam [6000406010010]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
480	**Rock Check Dam [6000406010011]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. **Comments: See CA# 2000: The rock check dams in the drainage channels up gradient of outfall 25 in the upper west side heavy equipment yard are in need of repair and sediment removal.**		☒	☐	☐
490	**Rock Check Dam [6000406010012]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
500	**Rock Check Dam [6000406010013]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
510	**Rock Check Dam [6000406010014]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
520	**Rock Check Dam [6000406010015]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
530	**Rock Check Dam [6000406010016]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑

540	**Rock Check Dam [6000406010017]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
550	**Rock Check Dam [6000406010018]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
560	**Rock Check Dam [6000406010019]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
570	**Rock Check Dam [6000406010020]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
580	**Rock Check Dam [6000406010021]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
590	**Rock Check Dam [6000406010022]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
600	**Rock Check Dam [6000406010052]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
610	**Rock Check Dam [6000406010053]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
620	**Rock Check Dam [6000406010054]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
630	**Rock Check Dam [6000406010055]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
640	**Rock Check Dam [6000406010056]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
650	**Rock Check Dam [6000406010057]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. **Comments: See CA#2000: The rock check dams in the drainage channels up gradient of outfall 25 in the upper west side heavy equipment yard are in need of repair and sediment removal.**		☒	☐	☐
660	**Rock Check Dam [6000406010058]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
670	**Rock Check Dam [6000406010074]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
680	**Rock Check Dam [6000406010075]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
690	**Rock Check Dam [6000406010076]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
700	**Rock Check Dam [6000406010077]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
710	**Rock Check Dam [6000406010098]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
720	**Rock Check Dam [6000406010099]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
730	**Gabion [6000407010035]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
740	**Gabion [6000407010036]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
750	**Gabion [6000407010037]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
760	**Gabion [6000407010038]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
770	**Trench Drain [6000409040046]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
780	**Drop inlet with filters [6000409020096]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
790	**Drop Inlet with Petro-Plug [6000409010040]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
800	**EnviroSoxx w/ MetalLoxx [6000403200086]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
810	**EnviroSoxx w/ MetalLoxx [6000403200087]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
820	**EnviroSoxx w/ MetalLoxx [6000403200088]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑

830	**EnviroSoxx w/ MetalLoxx [6000403200090]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
840	**EnviroSoxx w/ MetalLoxx [6000403200091]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
850	**EnviroSoxx w/ MetalLoxx [6000403200092]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
860	**EnviroSoxx w/ MetalLoxx [6000403200093]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
870	**EnviroSoxx w/ MetalLoxx [6000403200094]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
880	**TRM-Lined Swale [6000404080068]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
890	**TRM-Lined Swale [6000404080069]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑

Area/Activity exposed to stormwater (identify needed mainteance 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. **Comments: See CA# 2002: A rusting carbon steel pipe was staged outside of the metal storage canopy in the SE corner of the upper yard on the east side of 60-1.**		☒	☐	☐
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. **Comments: See CA 2001: While refueling a LANL truck in the designated refueling area approx. 1 cup of fuel splashed onto the asphalt (this has occurred previously as well). Absorbent was disposed of and micro-blaze was applied. Crews will utilize spill pads or other controls more pro-actively instead of responding to fuel spillage on asphalt.**		☒	☐	☐
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. **Comments: Mechanical sweeping with the sweeper truck was completed August 20th.**		☐	☐	☑
1060	Leaks and spills: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
1070	**Sector P [60004-P]** 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 Report

Completed: 8/23/2021 2:00:00 PM

Report: Jacob Knight

J. Knight	8/26/2021		
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, DESH Group Leader, EPC Group Leader)

Print name and title: Larry Velasquez, LOG-HERG Group Leader

Signature: Larry Velq Date: 09/16/2021

Los Alamos National Laboratory

Work Order MSGP-RI-65142

MSGP Routine Inspection
Printed 9/23/2021 - 12:13 PM

Maintenance Details

Requested: 8/30/2021 5:22:00 PM
Procedure: MSGP Routine Facility Inspection (EPC-CP-QP-2108 R0 Form 1)
Last PM: 8/23/2021
Project: Routine Facility Inspections September 2021 (P-MSGP-RI-5516)
Reason: 2021 September Inspections

Target: 9/30/2021
Priority/Type: Normal / Inspection
Department: Utilities and Infrastructure

MSGP Program
RG121.9
TA-60-1 Heavy Equipment Yard

Contact:
Phone:

Tasks

#	Description	Meas.	No	N/A	Yes
Weather Information					
20	Describe the weather at time of inspection and document the temperature (F°). Comments: Sunny, clear, and 79 degrees F.		☐	☐	☑
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.		☐	☐	☑
50	If "No" has a CAR been previously initiated for this new discharge?		☐	☑	☐
60	Is the facility free of discharge of pollutants at the time of inspection? If "No" describe.		☐	☐	☑
70	Is the facility free of evidence of, or the potential for, pollutants entering the drainage system. If "No" describe.		☐	☐	☑
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 [022]** Free of Evidence of Erosion? If "No", describe.		☐	☐	☑
100	**Monitored Outfall [022]** Flow Dissipation Devices Operating Effectively? If "No", describe.		☐	☐	☑
110	**Monitored Outfall [022]** Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		☐	☐	☑
120	**Monitored Outfall [022]** Free of any unauthorized non-stormwater discharges? If "No" describe.		☐	☐	☑
130	**Substantially Identical Outfall [021]** Free of Evidence of Erosion? If "No", describe.		☐	☐	☑
140	**Substantially Identical Outfall [021]** Flow Dissipation Devices Operating Effectively? If "No", describe.		☐	☐	☑
150	**Substantially Identical Outfall [021]** Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		☐	☐	☑
160	**Substantially Identical Outfall [021]** Free of any unauthorized non-stormwater discharges? If "No" describe.		☐	☐	☑
170	**Substantially Identical Outfall [023]** Free of Evidence of Erosion? If "No", describe.		☐	☐	☑
180	**Substantially Identical Outfall [023]** Flow Dissipation Devices Operating Effectively? If "No", describe.		☐	☐	☑
190	**Substantially Identical Outfall [023]** Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		☐	☐	☑
200	**Substantially Identical Outfall [023]** Free of any unauthorized non-stormwater discharges? If "No" describe.		☐	☐	☑
210	**Substantially Identical Outfall [024]** Free of Evidence of Erosion? If "No", describe.		☐	☐	☑
220	**Substantially Identical Outfall [024]** Flow Dissipation Devices Operating Effectively? If "No", describe.		☐	☐	☑
230	**Substantially Identical Outfall [024]** Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		☐	☐	☑
240	**Substantially Identical Outfall [024]** Free of any unauthorized non-stormwater		☐	☐	☑

	discharges? If "No" describe.				
250	**Substantially Identical Outfall [025]** Free of Evidence of Erosion? If "No", describe.		☐	☐	☑
260	**Substantially Identical Outfall [025]** Flow Dissipation Devices Operating Effectively? If "No", describe.		☐	☐	☑
270	**Substantially Identical Outfall [025]** Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		☐	☐	☑
280	**Substantially Identical Outfall [025]** Free of any unauthorized non-stormwater discharges? If "No" describe.		☐	☐	☑

Control Measures (identify needed maintenance and repairs, failed control measures that need replacment, or a description of corrective actions in relevant task comments).

300	**Asphalt Berm [6000403040027]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
310	**Asphalt Berm [6000403040028]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
320	**Asphalt Berm [6000403040029]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
330	**Asphalt Berm [6000403040047]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
340	**Gravel Bags [6000403100061]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
350	**Gravel Bags [6000403100095]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
360	**Concrete/Asphalt Channel/Swale [6000404020031]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
370	**Concrete/Asphalt Channel/Swale [6000404020032]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
380	**Eco-Block [6000403110060]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
390	**Rock Channel/Swale [6000404030023]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
400	**Rock Channel/Swale [6000404030043]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
410	**Rock Channel/Swale [6000404030073]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
420	**Rip Rap [6000404060002]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
430	**Rip Rap [6000404060039]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
440	**Earthen Channel/Swale [6000404010033]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
450	**Earthen Channel/Swale [6000404010034]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
460	**Gabion Swale [6000404090042]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
470	**Rock Check Dam [6000406010010]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
480	**Rock Check Dam [6000406010011]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
490	**Rock Check Dam [6000406010012]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
500	**Rock Check Dam [6000406010013]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
510	**Rock Check Dam [6000406010014]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
520	**Rock Check Dam [6000406010015]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
530	**Rock Check Dam [6000406010016]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
540	**Rock Check Dam [6000406010017]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑

550	**Rock Check Dam [6000406010018]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
560	**Rock Check Dam [6000406010019]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
570	**Rock Check Dam [6000406010020]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
580	**Rock Check Dam [6000406010021]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
590	**Rock Check Dam [6000406010022]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
600	**Rock Check Dam [6000406010052]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
610	**Rock Check Dam [6000406010053]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
620	**Rock Check Dam [6000406010054]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
630	**Rock Check Dam [6000406010055]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
640	**Rock Check Dam [6000406010056]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
650	**Rock Check Dam [6000406010057]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
660	**Rock Check Dam [6000406010058]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
670	**Rock Check Dam [6000406010074]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
680	**Rock Check Dam [6000406010075]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
690	**Rock Check Dam [6000406010076]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
700	**Rock Check Dam [6000406010077]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
710	**Rock Check Dam [6000406010098]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
720	**Rock Check Dam [6000406010099]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
730	**Gabion [6000407010035]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
740	**Gabion [6000407010036]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
750	**Gabion [6000407010037]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
760	**Gabion [6000407010038]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
770	**Trench Drain [6000409040046]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
780	**Drop inlet with filters [6000409020096]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
790	**Drop Inlet with Petro-Plug [6000409010040]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. Comments: Petro-barrier boxes and filters were replaced with new ones on 9-16-21		☐	☐	☑
800	**EnviroSoxx w/ MetalLoxx [6000403200086]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
810	**EnviroSoxx w/ MetalLoxx [6000403200087]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
820	**EnviroSoxx w/ MetalLoxx [6000403200088]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
830	**EnviroSoxx w/ MetalLoxx [6000403200090]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
840	**EnviroSoxx w/ MetalLoxx [6000403200091]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑

850	**EnviroSoxx w/ MetalLoxx [6000403200092]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
860	**EnviroSoxx w/ MetalLoxx [6000403200093]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
870	**EnviroSoxx w/ MetalLoxx [6000403200094]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
880	**TRM-Lined Swale [6000404080068]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
890	**TRM-Lined Swale [6000404080069]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
	Area/Activity exposed to stormwater (identify needed mainteance 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. Comments: Using absorbent mats now at fueling location to capture drips. Previous spills were absorbed and micro-blaze was applied.		☐	☐	☑
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. Comments: see CAR # 2009: During efforts to calibrate deicer sprayers on ATVs an abnormal amount drained onto pavement and soil in the lower east yard at the heavy equipment shop.		☒	☐	☐
1070	**Sector P [60004-P]** 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 Report

Completed: 9/17/2021 12:45:00 PM

Report: Jacob Knight

Signature / Name	Date	Signature / Name	Date
J. Knight	9/17/2021		

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: Larry Velasquez, LOG-HERG Group Leader

Signature: LARRY VELASQUEZ (Affiliate) Digitally signed by LARRY VELASQUEZ (Affiliate) Date: 2021.10.21 15:47:48 -06'00' Date: 10-21-2021

Los Alamos National Laboratory

Work Order MSGP-RI-65271

MSGP Routine Inspection
Printed 11/1/2021 - 11:54 AM

Maintenance Details

Requested: 10/4/2021 11:35:00 AM
Procedure: MSGP Routine Facility Inspection (EPC-CP-QP-2108 R0 Form 1)
Last PM: 9/17/2021
Project: Routine Facility Inspections October 2021 (P-MSGP-RI-5524)
Reason: 2021 October Inspections

Target: 10/31/2021
Priority/Type: Normal / Inspection
Department: Utilities and Infrastructure

MSGP Program
RG121.9
TA-60-1 Heavy Equipment Yard

Contact:
Phone:

Tasks

#	Description	Meas.	No	N/A	Yes
	Weather Information				
20	Describe the weather at time of inspection and document the temperature (F°). Comments: Sunny, clear, and 38 degrees F		☐	☐	☑
	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.		☐	☐	☑
50	If "No" has a CAR been previously initiated for this new discharge?		☐	☑	☐
60	Is the facility free of discharge of pollutants at the time of inspection? If "No" describe.		☐	☐	☑
70	Is the facility free of evidence of, or the potential for, pollutants entering the drainage system. If "No" describe.		☐	☐	☑
	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 [022]** Free of Evidence of Erosion? If "No", describe.		☐	☐	☑
100	**Monitored Outfall [022]** Flow Dissipation Devices Operating Effectively? If "No", describe.		☐	☐	☑
110	**Monitored Outfall [022]** Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		☐	☐	☑
120	**Monitored Outfall [022]** Free of any unauthorized non-stormwater discharges? If "No" describe.		☐	☐	☑
130	**Substantially Identical Outfall [021]** Free of Evidence of Erosion? If "No", describe.		☐	☐	☑
140	**Substantially Identical Outfall [021]** Flow Dissipation Devices Operating Effectively? If "No", describe.		☐	☐	☑
150	**Substantially Identical Outfall [021]** Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		☐	☐	☑
160	**Substantially Identical Outfall [021]** Free of any unauthorized non-stormwater discharges? If "No" describe.		☐	☐	☑
170	**Substantially Identical Outfall [023]** Free of Evidence of Erosion? If "No", describe.		☐	☐	☑
180	**Substantially Identical Outfall [023]** Flow Dissipation Devices Operating Effectively? If "No", describe.		☐	☐	☑
190	**Substantially Identical Outfall [023]** Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		☐	☐	☑
200	**Substantially Identical Outfall [023]** Free of any unauthorized non-stormwater discharges? If "No" describe.		☐	☐	☑
210	**Substantially Identical Outfall [024]** Free of Evidence of Erosion? If "No", describe.		☐	☐	☑
220	**Substantially Identical Outfall [024]** Flow Dissipation Devices Operating Effectively? If "No", describe.		☐	☐	☑
230	**Substantially Identical Outfall [024]** Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		☐	☐	☑
240	**Substantially Identical Outfall [024]** Free of any unauthorized non-stormwater		☐	☐	☑

	discharges? If "No" describe.				
250	**Substantially Identical Outfall [025]** Free of Evidence of Erosion? If "No", describe.		☐	☐	☑
260	**Substantially Identical Outfall [025]** Flow Dissipation Devices Operating Effectively? If "No", describe.		☐	☐	☑
270	**Substantially Identical Outfall [025]** Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		☐	☐	☑
280	**Substantially Identical Outfall [025]** Free of any unauthorized non-stormwater discharges? If "No" describe.		☐	☐	☑

Control Measures (identify needed maintenance and repairs, failed control measures that need replacment, or a description of corrective actions in relevant task comments).

300	**Asphalt Berm [6000403040027]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
310	**Asphalt Berm [6000403040028]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
320	**Asphalt Berm [6000403040029]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
330	**Asphalt Berm [6000403040047]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
340	**Gravel Bags [6000403100061]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
350	**Gravel Bags [6000403100095]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
360	**Concrete/Asphalt Channel/Swale [6000404020031]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
370	**Concrete/Asphalt Channel/Swale [6000404020032]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
380	**Eco-Block [6000403110060]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
390	**Rock Channel/Swale [6000404030023]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
400	**Rock Channel/Swale [6000404030043]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
410	**Rock Channel/Swale [6000404030073]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
420	**Rip Rap [6000404060002]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
430	**Rip Rap [6000404060039]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
440	**Earthen Channel/Swale [6000404010033]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
450	**Earthen Channel/Swale [6000404010034]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
460	**Gabion Swale [6000404090042]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
470	**Rock Check Dam [6000406010010]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
480	**Rock Check Dam [6000406010011]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
490	**Rock Check Dam [6000406010012]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
500	**Rock Check Dam [6000406010013]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
510	**Rock Check Dam [6000406010014]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
520	**Rock Check Dam [6000406010015]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
530	**Rock Check Dam [6000406010016]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
540	**Rock Check Dam [6000406010017]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑

550	**Rock Check Dam [6000406010018]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
560	**Rock Check Dam [6000406010019]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
570	**Rock Check Dam [6000406010020]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
580	**Rock Check Dam [6000406010021]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
590	**Rock Check Dam [6000406010022]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
600	**Rock Check Dam [6000406010052]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
610	**Rock Check Dam [6000406010053]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
620	**Rock Check Dam [6000406010054]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
630	**Rock Check Dam [6000406010055]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
640	**Rock Check Dam [6000406010056]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
650	**Rock Check Dam [6000406010057]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
660	**Rock Check Dam [6000406010058]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
670	**Rock Check Dam [6000406010074]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
680	**Rock Check Dam [6000406010075]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
690	**Rock Check Dam [6000406010076]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
700	**Rock Check Dam [6000406010077]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
710	**Rock Check Dam [6000406010098]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
720	**Rock Check Dam [6000406010099]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
730	**Gabion [6000407010035]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
740	**Gabion [6000407010036]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
750	**Gabion [6000407010037]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
760	**Gabion [6000407010038]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
770	**Trench Drain [6000409040046]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
780	**Drop inlet with filters [6000409020096]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
790	**Drop Inlet with Petro-Plug [6000409010100]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
800	**EnviroSoxx w/ MetalLoxx [6000403200086]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
810	**EnviroSoxx w/ MetalLoxx [6000403200087]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
820	**EnviroSoxx w/ MetalLoxx [6000403200088]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
830	**EnviroSoxx w/ MetalLoxx [6000403200090]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
840	**EnviroSoxx w/ MetalLoxx [6000403200091]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
850	**EnviroSoxx w/ MetalLoxx [6000403200092]** Control Measure is operating effectively? If	☐	☐	☑

	"No" describe condition & need for Maintenance, Repair, or Replacement.				
860	**EnviroSoxx w/ MetalLoxx [6000403200093]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
870	**EnviroSoxx w/ MetalLoxx [6000403200094]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
880	**TRM-Lined Swale [6000404080068]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
890	**TRM-Lined Swale [6000404080069]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
	Area/Activity exposed to stormwater (identify needed mainteance 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. Comments: See CAR #2020: 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.		☒	☐	☐
1060	Leaks and spills: controls adequate (appropriate, effective, and operating)? If "No" describe. Comments: See CAR #2021: 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.		☒	☐	☐
1070	**Sector P [60004-P]** 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 Report

Completed: 10/15/2021 11:00:00 AM

Report: Jacob Knight

J. Knight	10/20/2021		
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, DESH Group Leader, EPC Group Leader)

Print name and title: Larry Velasquez LOG-HERG Group Leader

Signature: LARRY VELASQUEZ (Affiliate) Digitally signed by LARRY VELASQUEZ (Affiliate) Date: 2021.11.03 16:03:18 -06'00' Date: 11-3-2021

Los Alamos National Laboratory

Work Order MSGP-RI-65339

MSGP Routine Inspection
Printed 12/1/2021 - 11:57 AM

Maintenance Details

Requested: 11/1/2021 11:37:00 AM
Procedure: MSGP Routine Facility Inspection (EPC-CP-QP-2108 R0 Form 1)
Last PM: 10/15/2021
Project: Routine Facility Inspections November 2021 (P-MSGP-RI-5530)
Reason: 2021 November Inspections

Target: 11/28/2021
Priority/Type: Normal / Inspection
Department: Utilities and Infrastructure

MSGP Program
RG121.9
TA-60-1 Heavy Equipment Yard

Contact:
Phone:

Tasks

#	Description	Meas.	No	N/A	Yes
	Weather Information				
20	Describe the weather at time of inspection and document the temperature (F°). Comments: 61 degrees F and sunny.		☐	☐	☑
	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.		☐	☐	☑
50	If "No" has a CAR been previously initiated for this new discharge?		☐	☑	☐
60	Is the facility free of discharge of pollutants at the time of inspection? If "No" describe.		☐	☐	☑
70	Is the facility free of evidence of, or the potential for, pollutants entering the drainage system. If "No" describe.		☐	☐	☑
	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 [022]** Free of Evidence of Erosion? If "No", describe.		☐	☐	☑
100	**Monitored Outfall [022]** Flow Dissipation Devices Operating Effectively? If "No", describe.		☐	☐	☑
110	**Monitored Outfall [022]** Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		☐	☐	☑
120	**Monitored Outfall [022]** Free of any unauthorized non-stormwater discharges? If "No" describe.		☐	☐	☑
130	**Substantially Identical Outfall [021]** Free of Evidence of Erosion? If "No", describe.		☐	☐	☑
140	**Substantially Identical Outfall [021]** Flow Dissipation Devices Operating Effectively? If "No", describe.		☐	☐	☑
150	**Substantially Identical Outfall [021]** Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		☐	☐	☑
160	**Substantially Identical Outfall [021]** Free of any unauthorized non-stormwater discharges? If "No" describe.		☐	☐	☑
170	**Substantially Identical Outfall [023]** Free of Evidence of Erosion? If "No", describe.		☐	☐	☑
180	**Substantially Identical Outfall [023]** Flow Dissipation Devices Operating Effectively? If "No", describe.		☐	☐	☑
190	**Substantially Identical Outfall [023]** Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		☐	☐	☑
200	**Substantially Identical Outfall [023]** Free of any unauthorized non-stormwater discharges? If "No" describe.		☐	☐	☑
210	**Substantially Identical Outfall [024]** Free of Evidence of Erosion? If "No", describe.		☐	☐	☑

220	**Substantially Identical Outfall [024]** Flow Dissipation Devices Operating Effectively? If "No", describe.		☐	☐	☑
230	**Substantially Identical Outfall [024]** Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		☐	☐	☑
240	**Substantially Identical Outfall [024]** Free of any unauthorized non-stormwater discharges? If "No" describe.		☐	☐	☑
250	**Substantially Identical Outfall [025]** Free of Evidence of Erosion? If "No", describe.		☐	☐	☑
260	**Substantially Identical Outfall [025]** Flow Dissipation Devices Operating Effectively? If "No", describe.		☐	☐	☑
270	**Substantially Identical Outfall [025]** Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		☐	☐	☑
280	**Substantially Identical Outfall [025]** Free of any unauthorized non-stormwater discharges? If "No" describe.		☐	☐	☑

Control Measures (identify needed maintenance and repairs, failed control measures that need replacment, or a description of corrective actions in relevant task comments).

300	**Asphalt Berm [6000403040027]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
310	**Asphalt Berm [6000403040028]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
320	**Asphalt Berm [6000403040029]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
330	**Asphalt Berm [6000403040047]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
340	**Gravel Bags [6000403100061]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
350	**Gravel Bags [6000403100095]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
360	**Concrete/Asphalt Channel/Swale [6000404020031]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
370	**Concrete/Asphalt Channel/Swale [6000404020032]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
380	**Eco-Block [6000403110060]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
390	**Rock Channel/Swale [6000404030023]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
400	**Rock Channel/Swale [6000404030043]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
410	**Rock Channel/Swale [6000404030073]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
420	**Rip Rap [6000404060002]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
430	**Rip Rap [6000404060039]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
440	**Earthen Channel/Swale [6000404010033]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
450	**Earthen Channel/Swale [6000404010034]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
460	**Gabion Swale [6000404090042]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
470	**Rock Check Dam [6000406010010]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
480	**Rock Check Dam [6000406010011]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
490	**Rock Check Dam [6000406010012]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
500	**Rock Check Dam [6000406010013]** Control Measure is operating effectively? If		☐	☐	☑

	"No" describe condition & need for Maintenance, Repair, or Replacement.				
510	**Rock Check Dam [6000406010014]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
520	**Rock Check Dam [6000406010015]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
530	**Rock Check Dam [6000406010016]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
540	**Rock Check Dam [6000406010017]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
550	**Rock Check Dam [6000406010018]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
560	**Rock Check Dam [6000406010019]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
570	**Rock Check Dam [6000406010020]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
580	**Rock Check Dam [6000406010021]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
590	**Rock Check Dam [6000406010022]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
600	**Rock Check Dam [6000406010052]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
610	**Rock Check Dam [6000406010053]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
620	**Rock Check Dam [6000406010054]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
630	**Rock Check Dam [6000406010055]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
640	**Rock Check Dam [6000406010056]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
650	**Rock Check Dam [6000406010057]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
660	**Rock Check Dam [6000406010058]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
670	**Rock Check Dam [6000406010074]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
680	**Rock Check Dam [6000406010075]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
690	**Rock Check Dam [6000406010076]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
700	**Rock Check Dam [6000406010077]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
710	**Rock Check Dam [6000406010098]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
720	**Rock Check Dam [6000406010099]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
730	**Gabion [6000407010035]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
740	**Gabion [6000407010036]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
750	**Gabion [6000407010037]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
760	**Gabion [6000407010038]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
770	**Trench Drain [6000409040046]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
780	**Drop inlet with filters [6000409020096]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
790	**Drop Inlet with Petro-Plug [6000409010100]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or		☐	☐	☑

	Replacement.				
800	**EnviroSoxx w/ MetalLoxx [6000403200086]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
810	**EnviroSoxx w/ MetalLoxx [6000403200087]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
820	**EnviroSoxx w/ MetalLoxx [6000403200088]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
830	**EnviroSoxx w/ MetalLoxx [6000403200090]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
840	**EnviroSoxx w/ MetalLoxx [6000403200091]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
850	**EnviroSoxx w/ MetalLoxx [6000403200092]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
860	**EnviroSoxx w/ MetalLoxx [6000403200093]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
870	**EnviroSoxx w/ MetalLoxx [6000403200094]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
880	**TRM-Lined Swale [6000404080068]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
890	**TRM-Lined Swale [6000404080069]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑

Area/Activity exposed to stormwater (identify needed mainteance 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. Comments: see CAR# 2035 - In the lower east yard there was some cut aluminum sheets and other metal that were relocated from inside a shed to outside and are uncovered/exposed.		☒	☐	☐
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.		☐	☐	☑
1070	**Sector P [60004-P]** 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 Report

Completed: 11/15/2021 3:00:00 PM

Report: Jacob Knight, DEP

J Knight	11/16/2021		
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, DESH Group Leader, EPC Group Leader)

Print name and title: Larry Velasquez, LOG-HERG Group Leader

Signature: LARRY VELASQUEZ (Affiliate) Digitally signed by LARRY VELASQUEZ (Affiliate) Date: 2021.12.06 15:05:47 -07'00'

Date: 12/06/2021

Los Alamos National Laboratory

Work Order MSGP-RI-65450

MSGP Routine Inspection
Printed 12/13/2021 - 5:15 PM

Maintenance Details

Requested: 12/1/2021 12:04:00 PM
Procedure: MSGP Routine Facility Inspection (EPC-CP-QP-2108 R0 Form 1)
Last PM: 11/15/2021
Project: Routine Facility Inspections December 2021 (P-MSGP-RI-5538)
Reason: 2021 December Inspections

Target: 12/31/2021
Priority/Type: Normal / Inspection
Department: Utilities and Infrastructure

MSGP Program
RG121.9
TA-60-1 Heavy Equipment Yard

Contact:
Phone:

Tasks

#	Description	Meas.	No	N/A	Yes
	Weather Information				
20	Describe the weather at time of inspection and document the temperature (F°). Comments: 52 degrees F and mostly cloudy. Light snow predicted.		☐	☐	☑
	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.		☐	☐	☑
50	If "No" has a CAR been previously initiated for this new discharge?		☐	☑	☐
60	Is the facility free of discharge of pollutants at the time of inspection? If "No" describe.		☐	☐	☑
70	Is the facility free of evidence of, or the potential for, pollutants entering the drainage system. If "No" describe.		☐	☐	☑
	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 [022]** Free of Evidence of Erosion? If "No", describe.		☐	☐	☑
100	**Monitored Outfall [022]** Flow Dissipation Devices Operating Effectively? If "No", describe.		☐	☐	☑
110	**Monitored Outfall [022]** Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		☐	☐	☑
120	**Monitored Outfall [022]** Free of any unauthorized non-stormwater discharges? If "No" describe.		☐	☐	☑
130	**Substantially Identical Outfall [021]** Free of Evidence of Erosion? If "No", describe.		☐	☐	☑
140	**Substantially Identical Outfall [021]** Flow Dissipation Devices Operating Effectively? If "No", describe.		☐	☐	☑
150	**Substantially Identical Outfall [021]** Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		☐	☐	☑
160	**Substantially Identical Outfall [021]** Free of any unauthorized non-stormwater discharges? If "No" describe.		☐	☐	☑
170	**Substantially Identical Outfall [023]** Free of Evidence of Erosion? If "No", describe.		☐	☐	☑
180	**Substantially Identical Outfall [023]** Flow Dissipation Devices Operating Effectively? If "No", describe.		☐	☐	☑
190	**Substantially Identical Outfall [023]** Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		☐	☐	☑
200	**Substantially Identical Outfall [023]** Free of any unauthorized non-stormwater discharges? If "No" describe.		☐	☐	☑
210	**Substantially Identical Outfall [024]** Free of Evidence of Erosion? If "No", describe.		☐	☐	☑
220	**Substantially Identical Outfall [024]** Flow Dissipation Devices Operating Effectively? If "No", describe.		☐	☐	☑
230	**Substantially Identical Outfall [024]** Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		☐	☐	☑
240	**Substantially Identical Outfall [024]** Free of any unauthorized non-stormwater		☐	☐	☑

	discharges? If "No" describe.				
250	**Substantially Identical Outfall [025]** Free of Evidence of Erosion? If "No", describe.		☐	☐	☑
260	**Substantially Identical Outfall [025]** Flow Dissipation Devices Operating Effectively? If "No", describe.		☐	☐	☑
270	**Substantially Identical Outfall [025]** Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		☐	☐	☑
280	**Substantially Identical Outfall [025]** Free of any unauthorized non-stormwater discharges? If "No" describe.		☐	☐	☑

Control Measures (identify needed maintenance and repairs, failed control measures that need replacment, or a description of corrective actions in relevant task comments).

300	**Asphalt Berm [6000403040027]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
310	**Asphalt Berm [6000403040028]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
320	**Asphalt Berm [6000403040029]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
330	**Asphalt Berm [6000403040047]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
340	**Gravel Bags [6000403100061]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
350	**Gravel Bags [6000403100095]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
360	**Concrete/Asphalt Channel/Swale [6000404020031]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
370	**Concrete/Asphalt Channel/Swale [6000404020032]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
380	**Eco-Block [6000403110060]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
390	**Rock Channel/Swale [6000404030023]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
400	**Rock Channel/Swale [6000404030043]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
410	**Rock Channel/Swale [6000404030073]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
420	**Rip Rap [6000404060002]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
430	**Rip Rap [6000404060039]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
440	**Earthen Channel/Swale [6000404010033]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
450	**Earthen Channel/Swale [6000404010034]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
460	**Gabion Swale [6000404090042]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
470	**Rock Check Dam [6000406010010]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
480	**Rock Check Dam [6000406010011]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
490	**Rock Check Dam [6000406010012]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
500	**Rock Check Dam [6000406010013]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
510	**Rock Check Dam [6000406010014]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
520	**Rock Check Dam [6000406010015]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
530	**Rock Check Dam [6000406010016]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
540	**Rock Check Dam [6000406010017]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑

550	**Rock Check Dam [6000406010018]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
560	**Rock Check Dam [6000406010019]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
570	**Rock Check Dam [6000406010020]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
580	**Rock Check Dam [6000406010021]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
590	**Rock Check Dam [6000406010022]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
600	**Rock Check Dam [6000406010052]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
610	**Rock Check Dam [6000406010053]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
620	**Rock Check Dam [6000406010054]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. Comments: There is a lot of evidence of gopher activity and mounds. Pest control will be contacted to see if they can do anything.	☐	☐	☑
630	**Rock Check Dam [6000406010055]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
640	**Rock Check Dam [6000406010056]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
650	**Rock Check Dam [6000406010057]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
660	**Rock Check Dam [6000406010058]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
670	**Rock Check Dam [6000406010074]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
680	**Rock Check Dam [6000406010075]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
690	**Rock Check Dam [6000406010076]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
700	**Rock Check Dam [6000406010077]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
710	**Rock Check Dam [6000406010098]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
720	**Rock Check Dam [6000406010099]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
730	**Gabion [6000407010035]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
740	**Gabion [6000407010036]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
750	**Gabion [6000407010037]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
760	**Gabion [6000407010038]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
770	**Trench Drain [6000409040046]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
780	**Drop inlet with filters [6000409020096]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
790	**Drop Inlet with Petro-Plug [6000409010100]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
800	**EnviroSoxx w/ MetalLoxx [6000403200086]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
810	**EnviroSoxx w/ MetalLoxx [6000403200087]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
820	**EnviroSoxx w/ MetalLoxx [6000403200088]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
830	**EnviroSoxx w/ MetalLoxx [6000403200090]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
840	**EnviroSoxx w/ MetalLoxx [6000403200091]** Control Measure is operating effectively? If	☐	☐	☑

	"No" describe condition & need for Maintenance, Repair, or Replacement.				
850	**EnviroSoxx w/ MetalLoxx [6000403200092]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
860	**EnviroSoxx w/ MetalLoxx [6000403200093]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
870	**EnviroSoxx w/ MetalLoxx [6000403200094]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
880	**TRM-Lined Swale [6000404080068]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
890	**TRM-Lined Swale [6000404080069]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
	Area/Activity exposed to stormwater (identify needed mainteance 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. **Comments: See CAR # 2053: On the east side of TA-60-1, outside of the battery shed, three batteries were being stored outside of the shed and were leaking. See CAR # 2052: At the NE corner of TA-60-1, there is an area on the concrete apron that has deteriorated and has formed a depression. Water was present in the depression that had an oil sheen on it.**		☒	☐	☐
1070	**Sector P [60004-P]** 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 Report

Completed: 12/9/2021 3:30:00 PM

Report: Jacob Knight, DEP

Signature / Name	Date	Signature / Name	Date
Knight	12/10/2021		

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: Larry Velasquez LOG-HERG Group Leader

Signature: LARRY VELASQUEZ (Affiliate) Digitally signed by LARRY VELASQUEZ (Affiliate) Date: 2022.01.04 13:32:56 -07'00' Date: January 04, 2022

Los Alamos National Laboratory

Work Order MSGP-RI-65503
MSGP Routine Inspection
Printed 2/1/2022 - 1:32 PM

Maintenance Details

Requested: 1/12/2022 4:18:00 PM
Procedure: MSGP Routine Facility Inspection (EPC-CP-QP-2108 R0 Form 1)
Last PM: 12/9/2021
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
RG121.9

Contact:
Phone:

Tasks

#	Description	Meas	No	N/A	Yes
Weather Information					
20	Describe the weather at time of inspection and document the temperature (F°).		☐	☐	☑
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.		☐	☐	☑
50	If "No" has a CAR been previously initiated for this new discharge?		☐	☑	☐
60	Is the facility free of discharge of pollutants at the time of inspection? If "No" describe.		☐	☐	☑
70	Is the facility free of evidence of, or the potential for, pollutants entering the drainage system. If "No" describe.		☐	☐	☑
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 [022]** Free of Evidence of Erosion? If "No", describe.		☐	☐	☑
100	**Monitored Outfall [022]** Flow Dissipation Devices Operating Effectively? If "No", describe.		☐	☐	☑
110	**Monitored Outfall [022]** Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		☐	☐	☑
120	**Monitored Outfall [022]** Free of any unauthorized non-stormwater discharges? If "No" describe.		☐	☐	☑
130	**Substantially Identical Outfall [021]** Free of Evidence of Erosion? If "No", describe.		☐	☐	☑
140	**Substantially Identical Outfall [021]** Flow Dissipation Devices Operating Effectively? If "No", describe.		☐	☐	☑
150	**Substantially Identical Outfall [021]** Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		☐	☐	☑
160	**Substantially Identical Outfall [021]** Free of any unauthorized non-stormwater discharges? If "No" describe.		☐	☐	☑
170	**Substantially Identical Outfall [023]** Free of Evidence of Erosion? If "No", describe.		☐	☐	☑
180	**Substantially Identical Outfall [023]** Flow Dissipation Devices Operating Effectively? If "No", describe.		☐	☐	☑
190	**Substantially Identical Outfall [023]** Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		☐	☐	☑
200	**Substantially Identical Outfall [023]** Free of any unauthorized non-stormwater discharges? If "No" describe.		☐	☐	☑
210	**Substantially Identical Outfall [024]** Free of Evidence of Erosion? If "No", describe.		☐	☐	☑
220	**Substantially Identical Outfall [024]** Flow Dissipation Devices Operating Effectively? If "No", describe.		☐	☐	☑
230	**Substantially Identical Outfall [024]** Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		☐	☐	☑
240	**Substantially Identical Outfall [024]** Free of any unauthorized non-stormwater		☐	☐	☑

	discharges? If "No" describe.				
250	**Substantially Identical Outfall [025]** Free of Evidence of Erosion? If "No", describe.		☐	☐	☑
260	**Substantially Identical Outfall [025]** Flow Dissipation Devices Operating Effectively? If "No", describe.		☐	☐	☑
270	**Substantially Identical Outfall [025]** Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		☐	☐	☑
280	**Substantially Identical Outfall [025]** Free of any unauthorized non-stormwater discharges? If "No" describe.		☐	☐	☑

Control Measures (identify needed maintenance and repairs, failed control measures that need replacment, or a description of corrective actions in relevant task comments).

300	**Asphalt Berm [6000403040027]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
310	**Asphalt Berm [6000403040028]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
320	**Asphalt Berm [6000403040029]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
330	**Asphalt Berm [6000403040047]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
340	**Gravel Bags [6000403100061]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
350	**Gravel Bags [6000403100095]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
360	**Gravel Bags [6000403100101]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
370	**Concrete/Asphalt Channel/Swale [6000404020031]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
380	**Concrete/Asphalt Channel/Swale [6000404020032]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement		☐	☐	☑
390	**Eco-Block [6000403110060]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
400	**Rock Channel/Swale [6000404030023]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
410	**Rock Channel/Swale [6000404030043]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
420	**Rock Channel/Swale [6000404030073]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
430	**Rip Rap [6000404060002]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
440	**Rip Rap [6000404060039]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
450	**Earthen Channel/Swale [6000404010033]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
460	**Earthen Channel/Swale [6000404010034]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
470	**Gabion Swale [6000404090042]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
480	**Rock Check Dam [6000406010010]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
490	**Rock Check Dam [6000406010011]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
500	**Rock Check Dam [6000406010012]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
510	**Rock Check Dam [6000406010013]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
520	**Rock Check Dam [6000406010014]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
530	**Rock Check Dam [6000406010015]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
540	**Rock Check Dam [6000406010016]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
550	**Rock Check Dam [6000406010017]** Control Measure is operating effectively? If "No"		☐	☐	☑

	describe condition & need for Maintenance, Repair, or Replacement.				
560	**Rock Check Dam [6000406010018]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
570	**Rock Check Dam [6000406010019]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
580	**Rock Check Dam [6000406010020]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
590	**Rock Check Dam [6000406010021]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
600	**Rock Check Dam [6000406010022]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
610	**Rock Check Dam [6000406010052]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
620	**Rock Check Dam [6000406010053]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
630	**Rock Check Dam [6000406010054]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
640	**Rock Check Dam [6000406010055]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
650	**Rock Check Dam [6000406010056]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
660	**Rock Check Dam [6000406010057]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement		☐	☐	☑
670	**Rock Check Dam [6000406010058]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
680	**Rock Check Dam [6000406010074]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
690	**Rock Check Dam [6000406010075]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
700	**Rock Check Dam [6000406010076]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
710	**Rock Check Dam [6000406010077]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
720	**Rock Check Dam [6000406010098]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
730	**Rock Check Dam [6000406010099]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
740	**Gabion [6000407010035]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
750	**Gabion [6000407010036]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement		☐	☐	☑
760	**Gabion [6000407010037]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
770	**Gabion [6000407010038]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
780	**Trench Drain [6000409040046]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
790	**Drop inlet with filters [6000409020096]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
800	**Drop Inlet with Petro-Plug [6000409010100]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
810	**EnviroSoxx w/ MetalLoxx [6000403200086]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
820	**EnviroSoxx w/ MetalLoxx [6000403200087]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
830	**EnviroSoxx w/ MetalLoxx [6000403200088]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
840	**EnviroSoxx w/ MetalLoxx [6000403200090]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
850	**EnviroSoxx w/ MetalLoxx [6000403200091]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑

860	**EnviroSoxx w/ MetalLoxx [6000403200092]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
870	**EnviroSoxx w/ MetalLoxx [6000403200093]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
880	**EnviroSoxx w/ MetalLoxx [6000403200094]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
890	**TRM-Lined Swale [6000404080068]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
900	**TRM-Lined Swale [6000404080069]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
910	**Gravel Mulch [6000401050097]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑

Area/Activity exposed to stormwater (identify needed mainteance or a description of corrective actions in relevant task comment).

930	Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe. Comments: See CAR # 2082. Asphalt millings and rubber mats were found uncovered (exposed to stormwater) at the lower yard and the NW corner of Tk 88 - Heavy Equipment Yard.		☒	☐	☐
940	Transfer areas for substances in bulk: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
950	Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
960	Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
970	Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
980	Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
990	Fueling areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
1000	Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
1010	Machinery: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
1020	Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
1030	Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
1040	Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
1050	Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☑	☐
1060	Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
1070	Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
1080	Leaks and spills: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
1090	**Sector P [60004-P]** Vehicle storage/maintenance areas: controls adecuate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑

Non-Compliance

1110	Free of incidents of observed non-compliance not already identified above? If "No" describe.		☐	☐	☑

Additional Control Measures

1130	Are permit requirements satisfied with existing control measure(s)? If "No" describe additional control measures needed		☐	☐	☑

Labor Report

Completed: 1/20/2022 12:00:00 PM

Report: Jacob Knight, DEP

Signature / Name	Date	Signature / Name	Date
Jacob Knight	1/20/22		

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: Larry Velasquez LOG-HERG Group Leader

Signature: 2/14/2022 Date: 02/09/2022

Los Alamos National Laboratory

Work Order MSGP-RI-65511

MSGP Routine Inspection
Printed 2/28/2022 - 1:15 PM

Maintenance Details

Requested: 1/12/2022 4:26:00 PM
Procedure: MSGP Routine Facility Inspection (EPC-CP-QP-2108 R0 Form 1)
Last PM: 1/20/2022
Project: Routine Facility Inspections February 2022 (P-MSGP-RI-5545)
Reason: 2022 February Inspections

Target: 2/28/2022
Priority/Type: / Inspection
Department: Utilities and Infrastructure

MSGP Program
RG121.9
TA-60-0001 Heavy Equipment Yard

Contact:
Phone:

Tasks

#	Description	Meas.	No	N/A	Yes
	Weather Information				
20	Describe the weather at time of inspection and document the temperature (F°). Comments: Mostly cloudy and 41 degrees F.		☐	☐	☑
	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.		☐	☐	☑
50	If "No" has a CAR been previously initiated for this new discharge?		☐	☑	☐
60	Is the facility free of discharge of pollutants at the time of inspection? If "No" describe.		☐	☐	☑
70	Is the facility free of evidence of, or the potential for, pollutants entering the drainage system. If "No" describe. Comments: See CA# 2074: Due to snow removal activities there is sediment and base course in the asphalt swale at SIDP 024 near the NW corner of TA-60-1. The metallox wattle 6000403200094 in the swale is partially buried as well. Sediments were not discharged there is a pile of snow mixed with base course with the potential to discharge. It was cleaned up same day.		☒	☐	☐
	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 [022]** Free of Evidence of Erosion? If "No", describe.		☐	☐	☑
100	**Monitored Outfall [022]** Flow Dissipation Devices Operating Effectively? If "No", describe.		☐	☐	☑
110	**Monitored Outfall [022]** Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		☐	☐	☑
120	**Monitored Outfall [022]** Free of any unauthorized non-stormwater discharges? If "No" describe.		☐	☐	☑
130	**Substantially Identical Outfall [021]** Free of Evidence of Erosion? If "No", describe.		☐	☐	☑
140	**Substantially Identical Outfall [021]** Flow Dissipation Devices Operating Effectively? If "No", describe.		☐	☐	☑
150	**Substantially Identical Outfall [021]** Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		☐	☐	☑
160	**Substantially Identical Outfall [021]** Free of any unauthorized non-stormwater discharges? If "No" describe.		☐	☐	☑
170	**Substantially Identical Outfall [023]** Free of Evidence of Erosion? If "No", describe.		☐	☐	☑
180	**Substantially Identical Outfall [023]** Flow Dissipation Devices Operating Effectively? If "No", describe.		☐	☐	☑
190	**Substantially Identical Outfall [023]** Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		☐	☐	☑
200	**Substantially Identical Outfall [023]** Free of any unauthorized non-stormwater discharges? If "No" describe.		☐	☐	☑
210	**Substantially Identical Outfall [024]** Free of Evidence of Erosion? If "No", describe.		☐	☐	☑
220	**Substantially Identical Outfall [024]** Flow Dissipation Devices Operating Effectively? If		☐	☐	☑

	"No", describe.				
230	**Substantially Identical Outfall [024]** Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		☐	☐	☑
240	**Substantially Identical Outfall [024]** Free of any unauthorized non-stormwater discharges? If "No" describe.		☐	☐	☑
250	**Substantially Identical Outfall [025]** Free of Evidence of Erosion? If "No", describe.		☐	☐	☑
260	**Substantially Identical Outfall [025]** Flow Dissipation Devices Operating Effectively? If "No", describe.		☐	☐	☑
270	**Substantially Identical Outfall [025]** Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		☐	☐	☑
280	**Substantially Identical Outfall [025]** Free of any unauthorized non-stormwater discharges? If "No" describe.		☐	☐	☑

Control Measures (identify needed maintenance and repairs, failed control measures that need replacment, or a description of corrective actions in relevant task comments).

300	**Asphalt Berm [6000403040027]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
310	**Asphalt Berm [6000403040028]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
320	**Asphalt Berm [6000403040029]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
330	**Asphalt Berm [6000403040047]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
340	**Gravel Bags [6000403100061]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
350	**Gravel Bags [6000403100095]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
360	**Gravel Bags [6000403100101]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
370	**Concrete/Asphalt Channel/Swale [6000404020031]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
380	**Concrete/Asphalt Channel/Swale [6000404020032]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
390	**Eco-Block [6000403110060]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
400	**Rock Channel/Swale [6000404030023]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
410	**Rock Channel/Swale [6000404030043]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
420	**Rock Channel/Swale [6000404030073]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
430	**Rip Rap [6000404060002]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
440	**Rip Rap [6000404060039]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
450	**Earthen Channel/Swale [6000404010033]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
460	**Earthen Channel/Swale [6000404010034]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
470	**Gabion Swale [6000404090042]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
480	**Rock Check Dam [6000406010010]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
490	**Rock Check Dam [6000406010011]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
500	**Rock Check Dam [6000406010012]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
510	**Rock Check Dam [6000406010013]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
520	**Rock Check Dam [6000406010014]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
530	**Rock Check Dam [6000406010015]** Control Measure is operating effectively? If "No"		☐	☐	☑

	describe condition & need for Maintenance, Repair, or Replacement.				
540	**Rock Check Dam [6000406010016]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
550	**Rock Check Dam [6000406010017]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
560	**Rock Check Dam [6000406010018]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
570	**Rock Check Dam [6000406010019]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
580	**Rock Check Dam [6000406010020]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
590	**Rock Check Dam [6000406010021]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
600	**Rock Check Dam [6000406010022]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
610	**Rock Check Dam [6000406010052]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
620	**Rock Check Dam [6000406010053]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
630	**Rock Check Dam [6000406010054]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
640	**Rock Check Dam [6000406010055]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
650	**Rock Check Dam [6000406010056]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
660	**Rock Check Dam [6000406010057]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
670	**Rock Check Dam [6000406010058]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
680	**Rock Check Dam [6000406010074]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
690	**Rock Check Dam [6000406010075]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
700	**Rock Check Dam [6000406010076]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
710	**Rock Check Dam [6000406010077]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
720	**Rock Check Dam [6000406010098]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
730	**Rock Check Dam [6000406010099]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
740	**Gabion [6000407010035]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
750	**Gabion [6000407010036]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
760	**Gabion [6000407010037]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
770	**Gabion [6000407010038]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
780	**Trench Drain [6000409040046]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
790	**Drop inlet with filters [6000409020096]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
800	**Drop Inlet with Petro-Plug [6000409010100]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
810	**EnviroSoxx w/ MetalLoxx [6000403200086]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
820	**EnviroSoxx w/ MetalLoxx [6000403200087]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
830	**EnviroSoxx w/ MetalLoxx [6000403200088]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑

840	**EnviroSoxx w/ MetalLoxx [6000403200090]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
850	**EnviroSoxx w/ MetalLoxx [6000403200091]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
860	**EnviroSoxx w/ MetalLoxx [6000403200092]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
870	**EnviroSoxx w/ MetalLoxx [6000403200093]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
880	**EnviroSoxx w/ MetalLoxx [6000403200094]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. **Comments: See CA# 2074: Due to snow removal activities there is sediment and base course in the asphalt swale at SIDP 024 near the NW corner of TA-60-1. The metallox wattle 6000403200094 in the swale was partially buried as well. The base course was cleaned out and the wattle replaced with a new one.**	☒	☐	☐
890	**TRM-Lined Swale [6000404080068]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
900	**TRM-Lined Swale [6000404080069]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
910	**Gravel Mulch [6000401050097]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑

Area/Activity exposed to stormwater (identify needed mainteance or a description of corrective actions in relevant task comment).

930	Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe. **Comments: See CA# 2075: There was a cut steel plate sitting just outside the canopy used for metal storage in the SE corner of the upper yard. It was moved to the tarp covered recycle bin.**	☒	☐	☐
940	Transfer areas for substances in bulk: controls adequate (appropriate, effective, and operating)? If "No" describe.	☐	☐	☑
950	Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe.	☐	☐	☑
960	Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe.	☐	☐	☑
970	Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	☐	☐	☑
980	Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	☐	☐	☑
990	Fueling areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	☐	☐	☑
1000	Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	☐	☐	☑
1010	Machinery: controls adequate (appropriate, effective, and operating)? If "No" describe.	☐	☐	☑
1020	Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	☐	☐	☑
1030	Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If "No" describe.	☐	☐	☑
1040	Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If "No" describe.	☐	☐	☑
1050	Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If "No" describe.	☐	☑	☐
1060	Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If "No" describe.	☐	☐	☑
1070	Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If "No" describe.	☐	☐	☑
1080	Leaks and spills: controls adequate (appropriate, effective, and operating)? If "No" describe. **Comments: See CA # 2073: There was spilled fuel and absorbent material on the asphalt near the fueling truck. The spill was cleaned up and micro-blazed. Facility was asked to fuel vehicles over spill mats or containment as was previously being done.. recent weather was an issue.**	☒	☐	☐
1090	**Sector P [60004-P]** Vehicle storage/maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	☐	☐	☑

Non-Compliance

1110	Free of incidents of observed non-compliance not already identified above? If "No" describe.		☐	☐	☑

Additional Control Measures

1130	Are permit requirements satisfied with existing control measure(s)? If "No" describe additional control measures needed.		☐	☐	☑

Labor Report

Completed: 2/22/2022 2:00:00 PM

Report: Jacob Knight, DEP

Jacob Knight Digitally signed by Jacob Knight
Date: 2022.03.04 10:42:37 -07'00'

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: Jimmy Vansaun Group Leader

Signature: [signature] Date: 3/9/2022

Los Alamos National Laboratory

Work Order MSGP-RI-65675
MSGP Routine Inspection
Printed 3/25/2022 - 1:59 PM (Duplicate Copy)

Maintenance Details

Requested: 3/14/2022 5:25:00 PM
Procedure: MSGP Routine Facility Inspection (EPC-CP-QP-2108 R0 Form 1)
Last PM: 3/2/2022
Project: Routine Facility Inspections March 2022 (P-MSGP-RI-5560)
Reason: 2022 March Inspections

Target: 3/31/2022
Priority/Type: / Inspection
Department: Utilities and Infrastructure

MSGP Program
RG121.9
TA-60-0001 Heavy Equipment Yard

Contact:
Phone:

Tasks

#	Description	Meas.	No	N/A	Yes
	Weather Information				
20	Describe the weather at time of inspection and document the temperature (F°). Comments: Sunny and clear. 49 degrees F.		☐	☐	☑
	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.		☐	☐	☑
50	If "No" has a CAR been previously initiated for this new discharge?		☐	☑	☐
60	Is the facility free of discharge of pollutants at the time of inspection? If "No" describe.		☐	☐	☑
70	Is the facility free of evidence of, or the potential for, pollutants entering the drainage system. If "No" describe.		☐	☐	☑
	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 [022]** Free of Evidence of Erosion? If "No", describe.		☐	☐	☑
100	**Monitored Outfall [022]** Flow Dissipation Devices Operating Effectively? If "No", describe.		☐	☐	☑
110	**Monitored Outfall [022]** Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		☐	☐	☑
120	**Monitored Outfall [022]** Free of any unauthorized non-stormwater discharges? If "No" describe.		☐	☐	☑
130	**Substantially Identical Outfall [021]** Free of Evidence of Erosion? If "No", describe.		☐	☐	☑
140	**Substantially Identical Outfall [021]** Flow Dissipation Devices Operating Effectively? If "No", describe.		☐	☐	☑
150	**Substantially Identical Outfall [021]** Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		☐	☐	☑
160	**Substantially Identical Outfall [021]** Free of any unauthorized non-stormwater discharges? If "No" describe.		☐	☐	☑
170	**Substantially Identical Outfall [023]** Free of Evidence of Erosion? If "No", describe.		☐	☐	☑
180	**Substantially Identical Outfall [023]** Flow Dissipation Devices Operating Effectively? If "No", describe.		☐	☐	☑
190	**Substantially Identical Outfall [023]** Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		☐	☐	☑
200	**Substantially Identical Outfall [023]** Free of any unauthorized non-stormwater discharges? If "No" describe.		☐	☐	☑
210	**Substantially Identical Outfall [024]** Free of Evidence of Erosion? If "No", describe.		☐	☐	☑
220	**Substantially Identical Outfall [024]** Flow Dissipation Devices Operating Effectively? If "No", describe.		☐	☐	☑
230	**Substantially Identical Outfall [024]** Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		☐	☐	☑
240	**Substantially Identical Outfall [024]** Free of any unauthorized non-stormwater		☐	☐	☑

	discharges? If "No" describe.				
250	**Substantially Identical Outfall [025]** Free of Evidence of Erosion? If "No", describe.		☐	☐	☑
260	**Substantially Identical Outfall [025]** Flow Dissipation Devices Operating Effectively? If "No", describe.		☐	☐	☑
270	**Substantially Identical Outfall [025]** Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		☐	☐	☑
280	**Substantially Identical Outfall [025]** Free of any unauthorized non-stormwater discharges? If "No" describe.		☐	☐	☑

Control Measures (identify needed maintenance and repairs, failed control measures that need replacment, or a description of corrective actions in relevant task comments).

300	**Asphalt Berm [6000403040027]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
310	**Asphalt Berm [6000403040028]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
320	**Asphalt Berm [6000403040029]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
330	**Asphalt Berm [6000403040047]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
340	**Gravel Bags [6000403100061]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
350	**Gravel Bags [6000403100095]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
360	**Gravel Bags [6000403100101]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
370	**Concrete/Asphalt Channel/Swale [6000404020031]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
380	**Concrete/Asphalt Channel/Swale [6000404020032]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
390	**Eco-Block [6000403110060]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
400	**Rock Channel/Swale [6000404030023]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
410	**Rock Channel/Swale [6000404030043]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
420	**Rock Channel/Swale [6000404030073]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
430	**Rip Rap [6000404060002]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
440	**Rip Rap [6000404060039]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
450	**Earthen Channel/Swale [6000404010033]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
460	**Earthen Channel/Swale [6000404010034]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
470	**Gabion Swale [6000404090042]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
480	**Rock Check Dam [6000406010010]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
490	**Rock Check Dam [6000406010011]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
500	**Rock Check Dam [6000406010012]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
510	**Rock Check Dam [6000406010013]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
520	**Rock Check Dam [6000406010014]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
530	**Rock Check Dam [6000406010015]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
540	**Rock Check Dam [6000406010016]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑

550	**Rock Check Dam [6000406010017]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
560	**Rock Check Dam [6000406010018]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
570	**Rock Check Dam [6000406010019]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
580	**Rock Check Dam [6000406010020]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
590	**Rock Check Dam [6000406010021]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
600	**Rock Check Dam [6000406010022]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
610	**Rock Check Dam [6000406010052]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
620	**Rock Check Dam [6000406010053]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
630	**Rock Check Dam [6000406010054]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
640	**Rock Check Dam [6000406010055]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
650	**Rock Check Dam [6000406010056]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
660	**Rock Check Dam [6000406010057]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
670	**Rock Check Dam [6000406010058]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
680	**Rock Check Dam [6000406010074]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
690	**Rock Check Dam [6000406010075]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
700	**Rock Check Dam [6000406010076]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
710	**Rock Check Dam [6000406010077]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
720	**Rock Check Dam [6000406010098]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
730	**Rock Check Dam [6000406010099]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
740	**Gabion [6000407010035]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
750	**Gabion [6000407010036]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
760	**Gabion [6000407010037]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
770	**Gabion [6000407010038]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
780	**Trench Drain [6000409040046]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
790	**Drop inlet with filters [6000409020096]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
800	**Drop Inlet with Petro-Plug [6000409010100]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
810	**EnviroSoxx w/ MetalLoxx [6000403200086]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
820	**EnviroSoxx w/ MetalLoxx [6000403200087]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
830	**EnviroSoxx w/ MetalLoxx [6000403200088]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
840	**EnviroSoxx w/ MetalLoxx [6000403200090]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
850	**EnviroSoxx w/ MetalLoxx [6000403200091]** Control Measure is operating effectively? If		☐	☐	☑

	"No" describe condition & need for Maintenance, Repair, or Replacement.				
860	**EnviroSoxx w/ MetalLoxx [6000403200092]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
870	**EnviroSoxx w/ MetalLoxx [6000403200093]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
880	**EnviroSoxx w/ MetalLoxx [6000403200102]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
890	**TRM-Lined Swale [6000404080068]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
900	**TRM-Lined Swale [6000404080069]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
910	**Gravel Mulch [6000401050097]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑

Area/Activity exposed to stormwater (identify needed mainteance or a description of corrective actions in relevant task comment).

930	Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe. Comments: There are now four new conex boxes on site for storing metal inside. This should help a lot keep raw metal materials from being exposed to stormwater and not having to depend on tarps etc.. the site map will be updated.		☐	☐	☑
940	Transfer areas for substances in bulk: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
950	Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
960	Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
970	Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
980	Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
990	Fueling areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
1000	Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
1010	Machinery: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
1020	Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
1030	Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
1040	Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
1050	Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☑	☐
1060	Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
1070	Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If "No" describe. Comments: See CAR #2082: There is trash along the north perimeter, trash near and within outfalls 21, 22, and 24, and trash and debris at the metal rack on the west side of 60-1. There has been recent wind and housekeeping is needed.		☒	☐	☐
1080	Leaks and spills: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
1090	**Sector P [60004-P]** Vehicle storage/maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑

Non-Compliance

1110	Free of incidents of observed non-compliance not already identified above? If "No" describe.		☐	☐	☑

Additional Control Measures

1130	Are permit requirements satisfied with existing control measure(s)? If "No" describe additional control measures needed.		☐	☐	☑

Labor Report

Completed: 3/24/2022 2:00:00 PM

Report: Jacob Knight, DEP

Signature / Name	Date	Signature / Name	Date
J Knight	3/23/2022		

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: Larry Vensquez Group Leader

Signature: Larry Vsq Date: 3/31/2022

Los Alamos National Laboratory

Work Order MSGP-RI-65764
MSGP Routine Inspection
Printed 4/27/2022 - 2:59 PM

Maintenance Details

Requested: 4/5/2022 4:47:00 PM
Procedure: MSGP Routine Facility Inspection (EPC-CP-QP-2108 R0 Form 1)
Last PM: 4/6/2022
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
RG121.9
TA-60-0001 Heavy Equipment Yard

Contact:
Phone:

Tasks

#	Description	Meas.	No	N/A	Yes
	Weather Information				
20	Describe the weather at time of inspection and document the temperature (F°). **Comments: Partly cloudy and 66 degrees F. Breezy.**		☐	☐	☑
	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.		☐	☐	☑
50	If "No" has a CAR been previously initiated for this new discharge?		☐	☑	☐
60	Is the facility free of discharge of pollutants at the time of inspection? If "No" describe.		☐	☐	☑
70	Is the facility free of evidence of, or the potential for, pollutants entering the drainage system. If "No" describe.		☐	☐	☑
	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 [022]** Free of Evidence of Erosion? If "No", describe.		☐	☐	☑
100	**Monitored Outfall [022]** Flow Dissipation Devices Operating Effectively? If "No", describe.		☐	☐	☑
110	**Monitored Outfall [022]** Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		☐	☐	☑
120	**Monitored Outfall [022]** Free of any unauthorized non-stormwater discharges? If "No" describe.		☐	☐	☑
130	**Substantially Identical Outfall [021]** Free of Evidence of Erosion? If "No", describe.		☐	☐	☑
140	**Substantially Identical Outfall [021]** Flow Dissipation Devices Operating Effectively? If "No", describe.		☐	☐	☑
150	**Substantially Identical Outfall [021]** Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		☐	☐	☑
160	**Substantially Identical Outfall [021]** Free of any unauthorized non-stormwater discharges? If "No" describe.		☐	☐	☑
170	**Substantially Identical Outfall [023]** Free of Evidence of Erosion? If "No", describe.		☐	☐	☑
180	**Substantially Identical Outfall [023]** Flow Dissipation Devices Operating Effectively? If "No", describe.		☐	☐	☑
190	**Substantially Identical Outfall [023]** Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		☐	☐	☑
200	**Substantially Identical Outfall [023]** Free of any unauthorized non-stormwater discharges? If "No" describe.		☐	☐	☑
210	**Substantially Identical Outfall [024]** Free of Evidence of Erosion? If "No", describe.		☐	☐	☑
220	**Substantially Identical Outfall [024]** Flow Dissipation Devices Operating Effectively? If "No", describe.		☐	☐	☑
230	**Substantially Identical Outfall [024]** Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		☐	☐	☑
240	**Substantially Identical Outfall [024]** Free of any unauthorized non-stormwater		☐	☐	☑

	discharges? If "No" describe.				
250	**Substantially Identical Outfall [025]** Free of Evidence of Erosion? If "No", describe.		☐	☐	☑
260	**Substantially Identical Outfall [025]** Flow Dissipation Devices Operating Effectively? If "No", describe.		☐	☐	☑
270	**Substantially Identical Outfall [025]** Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		☐	☐	☑
280	**Substantially Identical Outfall [025]** Free of any unauthorized non-stormwater discharges? If "No" describe.		☐	☐	☑

Control Measures (identify needed maintenance and repairs, failed control measures that need replacment, or a description of corrective actions in relevant task comments).

300	**Asphalt Berm [6000403040027]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
310	**Asphalt Berm [6000403040028]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
320	**Asphalt Berm [6000403040029]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
330	**Asphalt Berm [6000403040047]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
340	**Gravel Bags [6000403100061]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
350	**Gravel Bags [6000403100095]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
360	**Gravel Bags [6000403100101]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
370	**Concrete/Asphalt Channel/Swale [6000404020031]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
380	**Concrete/Asphalt Channel/Swale [6000404020032]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
390	**Eco-Block [6000403110060]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
400	**Rock Channel/Swale [6000404030023]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
410	**Rock Channel/Swale [6000404030043]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
420	**Rock Channel/Swale [6000404030073]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
430	**Rip Rap [6000404060002]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
440	**Rip Rap [6000404060039]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
450	**Earthen Channel/Swale [6000404010033]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
460	**Earthen Channel/Swale [6000404010034]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
470	**Gabion Swale [6000404090042]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
480	**Rock Check Dam [6000406010010]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
490	**Rock Check Dam [6000406010011]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
500	**Rock Check Dam [6000406010012]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
510	**Rock Check Dam [6000406010013]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
520	**Rock Check Dam [6000406010014]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
530	**Rock Check Dam [6000406010015]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
540	**Rock Check Dam [6000406010016]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑

550	**Rock Check Dam [6000406010017]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
560	**Rock Check Dam [6000406010018]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
570	**Rock Check Dam [6000406010019]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
580	**Rock Check Dam [6000406010020]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
590	**Rock Check Dam [6000406010021]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
600	**Rock Check Dam [6000406010022]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
610	**Rock Check Dam [6000406010052]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
620	**Rock Check Dam [6000406010053]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
630	**Rock Check Dam [6000406010054]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
640	**Rock Check Dam [6000406010055]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
650	**Rock Check Dam [6000406010056]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
660	**Rock Check Dam [6000406010057]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
670	**Rock Check Dam [6000406010058]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
680	**Rock Check Dam [6000406010074]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
690	**Rock Check Dam [6000406010075]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
700	**Rock Check Dam [6000406010076]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
710	**Rock Check Dam [6000406010077]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
720	**Rock Check Dam [6000406010098]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
730	**Rock Check Dam [6000406010099]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
740	**Gabion [6000407010035]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
750	**Gabion [6000407010036]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
760	**Gabion [6000407010037]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
770	**Gabion [6000407010038]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
780	**Trench Drain [6000409040046]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
790	**Drop inlet with filters [6000409020096]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
800	**Drop Inlet with Petro-Plug [6000409010100]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
810	**EnviroSoxx w/ MetalLoxx [6000403200103]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
820	**EnviroSoxx w/ MetalLoxx [6000403200104]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
830	**EnviroSoxx w/ MetalLoxx [6000403200105]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
840	**EnviroSoxx w/ MetalLoxx [6000403200106]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
850	**EnviroSoxx w/ MetalLoxx [6000403200107]** Control Measure is operating effectively? If	☐	☐	☑

	"No" describe condition & need for Maintenance, Repair, or Replacement.				
860	**EnviroSoxx w/ MetalLoxx [6000403200108]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
870	**EnviroSoxx w/ MetalLoxx [6000403200109]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
880	**EnviroSoxx w/ MetalLoxx [6000403200110]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
890	**TRM-Lined Swale [6000404080068]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
900	**TRM-Lined Swale [6000404080069]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
910	**Gravel Mulch [6000401050097]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑

Area/Activity exposed to stormwater (identify needed mainteance or a description of corrective actions in relevant task comment).

930	Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe. **Comments: Metal is under canopy and in the new conex boxes delivered recently. They are pending rack installation, racks are on order. Long pieces of metal are inside the 40ft conex on the south perimeter.**		☐	☐	☑
940	Transfer areas for substances in bulk: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
950	Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
960	Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
970	Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
980	Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
990	Fueling areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
1000	Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
1010	Machinery: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
1020	Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
1030	Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
1040	Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
1050	Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☑	☐
1060	Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
1070	Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If "No" describe. **Comments: Housekeeping looked good.**		☐	☐	☑
1080	Leaks and spills: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
1090	**Sector P [60004-P]** Vehicle storage/maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑

Non-Compliance

1110	Free of incidents of observed non-compliance not already identified above? If "No" describe.		☐	☐	☑

Additional Control Measures

1130	Are permit requirements satisfied with existing control measure(s)? If "No" describe additional control measures needed.		☐	☐	☑

Labor Report

Completed: 4/26/2022 3:00:00 PM

Report: Jacob Knight

Signature / Name	Date	Signature / Name	Date
J. Knight	4/27/2022		

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: LARRY VELASQUEZ, GROUP LEADER

Signature: [signature] Date: 5/5/2022

Los Alamos National Laboratory

Work Order MSGP-RI-65826

MSGP Routine Inspection
Printed 5/25/2022 - 9:47 AM

Maintenance Details

Requested: 5/2/2022 9:14:00 AM
Procedure: MSGP Routine Facility Inspection (EPC-CP-QP-2108 R0 Form 1)
Last PM: 4/26/2022
Project: Routine Facility Inspections May 2022 (P-MSGP-RI-5575)

Target: 5/31/2022
Priority/Type: Normal / Inspection
Department: Utilities and Infrastructure

MSGP Program
RG121.9
TA-60-0001 Heavy Equipment Yard

Contact:
Phone:

Reason: 2022 May Inspections

Tasks

#	Description	Meas.	No	N/A	Yes
	Weather Information				
20	Describe the weather at time of inspection and document the temperature (F°). Comments: Partly cloudy and 45 degrees F.		☐	☐	☑
	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.		☐	☐	☑
50	If "No" has a CAR been previously initiated for this new discharge?		☐	☑	☐
60	Is the facility free of discharge of pollutants at the time of inspection? If "No" describe.		☐	☐	☑
70	Is the facility free of evidence of, or the potential for, pollutants entering the drainage system. If "No" describe.		☐	☐	☑
	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 [022]** Free of Evidence of Erosion? If "No", describe.		☐	☐	☑
100	**Monitored Outfall [022]** Flow Dissipation Devices Operating Effectively? If "No", describe.		☐	☐	☑
110	**Monitored Outfall [022]** Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		☐	☐	☑
120	**Monitored Outfall [022]** Free of any unauthorized non-stormwater discharges? If "No" describe.		☐	☐	☑
130	**Substantially Identical Outfall [021]** Free of Evidence of Erosion? If "No", describe.		☐	☐	☑
140	**Substantially Identical Outfall [021]** Flow Dissipation Devices Operating Effectively? If "No", describe.		☐	☐	☑
150	**Substantially Identical Outfall [021]** Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		☐	☐	☑
160	**Substantially Identical Outfall [021]** Free of any unauthorized non-stormwater discharges? If "No" describe.		☐	☐	☑
170	**Substantially Identical Outfall [023]** Free of Evidence of Erosion? If "No", describe.		☐	☐	☑
180	**Substantially Identical Outfall [023]** Flow Dissipation Devices Operating Effectively? If "No", describe.		☐	☐	☑
190	**Substantially Identical Outfall [023]** Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		☐	☐	☑
200	**Substantially Identical Outfall [023]** Free of any unauthorized non-stormwater discharges? If "No" describe.		☐	☐	☑
210	**Substantially Identical Outfall [024]** Free of Evidence of Erosion? If "No", describe.		☐	☐	☑
220	**Substantially Identical Outfall [024]** Flow Dissipation Devices Operating Effectively? If "No", describe.		☐	☐	☑
230	**Substantially Identical Outfall [024]** Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		☐	☐	☑
240	**Substantially Identical Outfall [024]** Free of any unauthorized non-stormwater discharges? If "No" describe.		☐	☐	☑
250	**Substantially Identical Outfall [025]** Free of Evidence of Erosion? If "No", describe.		☐	☐	☑
260	**Substantially Identical Outfall [025]** Flow Dissipation Devices Operating Effectively? If		☐	☐	☑

	"No", describe.				
270	**Substantially Identical Outfall [025]** Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		☐	☐	☑
280	**Substantially Identical Outfall [025]** Free of any unauthorized non-stormwater discharges? If "No" describe.		☐	☐	☑

Control Measures (identify needed maintenance and repairs, failed control measures that need replacment, or a description of corrective actions in relevant task comments).

300	**Asphalt Berm [6000403040027]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
310	**Asphalt Berm [6000403040028]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
320	**Asphalt Berm [6000403040029]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
330	**Asphalt Berm [6000403040047]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
340	**Gravel Bags [6000403100061]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
350	**Gravel Bags [6000403100095]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
360	**Gravel Bags [6000403100101]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
370	**Concrete/Asphalt Channel/Swale [6000404020031]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
380	**Concrete/Asphalt Channel/Swale [6000404020032]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
390	**Eco-Block [6000403110060]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
400	**Rock Channel/Swale [6000404030023]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
410	**Rock Channel/Swale [6000404030043]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
420	**Rock Channel/Swale [6000404030073]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
430	**Rip Rap [6000404060002]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
440	**Rip Rap [6000404060039]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
450	**Earthen Channel/Swale [6000404010033]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
460	**Earthen Channel/Swale [6000404010034]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
470	**Gabion Swale [6000404090042]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
480	**Rock Check Dam [6000406010010]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
490	**Rock Check Dam [6000406010011]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
500	**Rock Check Dam [6000406010012]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
510	**Rock Check Dam [6000406010013]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
520	**Rock Check Dam [6000406010014]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
530	**Rock Check Dam [6000406010015]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
540	**Rock Check Dam [6000406010016]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
550	**Rock Check Dam [6000406010017]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
560	**Rock Check Dam [6000406010018]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
570	**Rock Check Dam [6000406010019]** Control Measure is operating effectively? If "No"		☐	☐	☑

	describe condition & need for Maintenance, Repair, or Replacement.				
580	**Rock Check Dam [6000406010020]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
590	**Rock Check Dam [6000406010021]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
600	**Rock Check Dam [6000406010022]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
610	**Rock Check Dam [6000406010052]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
620	**Rock Check Dam [6000406010053]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
630	**Rock Check Dam [6000406010054]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
640	**Rock Check Dam [6000406010055]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
650	**Rock Check Dam [6000406010056]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
660	**Rock Check Dam [6000406010057]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
670	**Rock Check Dam [6000406010058]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
680	**Rock Check Dam [6000406010074]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
690	**Rock Check Dam [6000406010075]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
700	**Rock Check Dam [6000406010076]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
710	**Rock Check Dam [6000406010077]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
720	**Rock Check Dam [6000406010098]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
730	**Rock Check Dam [6000406010099]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
740	**Gabion [6000407010035]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
750	**Gabion [6000407010036]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
760	**Gabion [6000407010037]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
770	**Gabion [6000407010038]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
780	**Trench Drain [6000409040046]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
790	**Drop inlet with filters [6000409020096]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
800	**Drop Inlet with Petro-Plug [6000409010100]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
810	**EnviroSoxx w/ MetalLoxx [6000403200103]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
820	**EnviroSoxx w/ MetalLoxx [6000403200104]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
830	**EnviroSoxx w/ MetalLoxx [6000403200105]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
840	**EnviroSoxx w/ MetalLoxx [6000403200106]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
850	**EnviroSoxx w/ MetalLoxx [6000403200107]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
860	**EnviroSoxx w/ MetalLoxx [6000403200108]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
870	**EnviroSoxx w/ MetalLoxx [6000403200109]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
880	**EnviroSoxx w/ MetalLoxx [6000403200110]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑

890	**EnviroSoxx w/ MetalLoxx [6000403200111]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
900	**EnviroSoxx w/ MetalLoxx [6000403200112]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
910	**EnviroSoxx w/ MetalLoxx [6000403200113]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
920	**EnviroSoxx w/ MetalLoxx [6000403200114]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
930	**TRM-Lined Swale [6000404080068]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
940	**TRM-Lined Swale [6000404080069]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
950	**Gravel Mulch [6000401050097]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
	Area/Activity exposed to stormwater (identify needed mainteance or a description of corrective actions in relevant task comment).				
970	Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
980	Transfer areas for substances in bulk: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
990	Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
1000	Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
1010	Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
1020	Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
1030	Fueling areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
1040	Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
1050	Machinery: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
1060	Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
1070	Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
1080	Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
1090	Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☑	☐
1100	Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
1110	Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If "No" describe. Comments: Areas of recent wind blown trash were recently cleaned up and all areas looked good.		☐	☐	☑
1120	Leaks and spills: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
1130	**Sector P [60004-P]** Vehicle storage/maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
	Non-Compliance				
1150	Free of incidents of observed non-compliance not already identified above? If "No" describe.		☐	☐	☑
	Additional Control Measures				
1170	Are permit requirements satisfied with existing control measure(s)? If "No" describe additional control measures needed.		☐	☐	☑

Labor Report

Completed: 5/24/2022 2:30:00 PM

Report: Jacob Knight, DEP

J. Knight

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: LARRY VELASQUEZ Group Leader

Signature: [signature] Date: 5/25/2022

Los Alamos National Laboratory

Work Order MSGP-RI-65923

MSGP Routine Inspection
Printed 6/16/2022 - 4:16 PM

Maintenance Details

Requested: 5/31/2022 4:31:00 PM
Procedure: MSGP Routine Facility Inspection (EPC-CP-QP-2108 R0 Form 1)
Last PM: 5/24/2022
Project: Routine Facility Inspections June 2022 (P-MSGP-RI-5580)

Target: 6/30/2022
Priority/Type: Normal / Inspection
Department: Utilities and Infrastructure

MSGP Program
RG121.9
TA-60-0001 Heavy Equipment Yard

Contact:
Phone:

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°). Comments: Sunny and 78 degrees F		☐	☐	☑
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.		☐	☐	☑
50	If "No" has a CAR been previously initiated for this new discharge?		☐	☑	☐
60	Is the facility free of discharge of pollutants at the time of inspection? If "No" describe.		☐	☐	☑
70	Is the facility free of evidence of, or the potential for, pollutants entering the drainage system. If "No" describe.		☐	☐	☑
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 [022]** Free of Evidence of Erosion? If "No", describe.		☐	☐	☑
100	**Monitored Outfall [022]** Flow Dissipation Devices Operating Effectively? If "No", describe.		☐	☐	☑
110	**Monitored Outfall [022]** Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		☐	☐	☑
120	**Monitored Outfall [022]** Free of any unauthorized non-stormwater discharges? If "No" describe.		☐	☐	☑
130	**Substantially Identical Outfall [021]** Free of Evidence of Erosion? If "No", describe.		☐	☐	☑
140	**Substantially Identical Outfall [021]** Flow Dissipation Devices Operating Effectively? If "No", describe.		☐	☐	☑
150	**Substantially Identical Outfall [021]** Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		☐	☐	☑
160	**Substantially Identical Outfall [021]** Free of any unauthorized non-stormwater discharges? If "No" describe.		☐	☐	☑
170	**Substantially Identical Outfall [023]** Free of Evidence of Erosion? If "No", describe.		☐	☐	☑
180	**Substantially Identical Outfall [023]** Flow Dissipation Devices Operating Effectively? If "No", describe.		☐	☐	☑
190	**Substantially Identical Outfall [023]** Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		☐	☐	☑
200	**Substantially Identical Outfall [023]** Free of any unauthorized non-stormwater discharges? If "No" describe.		☐	☐	☑
210	**Substantially Identical Outfall [024]** Free of Evidence of Erosion? If "No", describe.		☐	☐	☑
220	**Substantially Identical Outfall [024]** Flow Dissipation Devices Operating Effectively? If "No", describe.		☐	☐	☑
230	**Substantially Identical Outfall [024]** Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		☐	☐	☑
240	**Substantially Identical Outfall [024]** Free of any unauthorized non-stormwater		☐	☐	☑

	discharges? If "No" describe.				
250	**Substantially Identical Outfall [025]** Free of Evidence of Erosion? If "No", describe.		☐	☐	☑
260	**Substantially Identical Outfall [025]** Flow Dissipation Devices Operating Effectively? If "No", describe.		☐	☐	☑
270	**Substantially Identical Outfall [025]** Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		☐	☐	☑
280	**Substantially Identical Outfall [025]** Free of any unauthorized non-stormwater discharges? If "No" describe.		☐	☐	☑

Control Measures (identify needed maintenance and repairs, failed control measures that need replacment, or a description of corrective actions in relevant task comments).

300	**Asphalt Berm [6000403040027]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
310	**Asphalt Berm [6000403040028]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
320	**Asphalt Berm [6000403040029]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
330	**Asphalt Berm [6000403040047]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
340	**Gravel Bags [6000403100061]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
350	**Gravel Bags [6000403100095]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
360	**Gravel Bags [6000403100101]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
370	**Concrete/Asphalt Channel/Swale [6000404020031]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
380	**Concrete/Asphalt Channel/Swale [6000404020032]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
390	**Eco-Block [6000403110060]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
400	**Rock Channel/Swale [6000404030023]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
410	**Rock Channel/Swale [6000404030043]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
420	**Rock Channel/Swale [6000404030073]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
430	**Rip Rap [6000404060002]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
440	**Rip Rap [6000404060039]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
450	**Earthen Channel/Swale [6000404010033]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
460	**Earthen Channel/Swale [6000404010034]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
470	**Gabion Swale [6000404090042]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
480	**Rock Check Dam [6000406010010]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
490	**Rock Check Dam [6000406010011]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
500	**Rock Check Dam [6000406010012]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
510	**Rock Check Dam [6000406010013]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
520	**Rock Check Dam [6000406010014]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
530	**Rock Check Dam [6000406010015]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
540	**Rock Check Dam [6000406010016]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
550	**Rock Check Dam [6000406010017]** Control Measure is operating effectively? If "No"		☐	☐	☑

	describe condition & need for Maintenance, Repair, or Replacement.				
560	**Rock Check Dam [6000406010018]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
570	**Rock Check Dam [6000406010019]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
580	**Rock Check Dam [6000406010020]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
590	**Rock Check Dam [6000406010021]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
600	**Rock Check Dam [6000406010022]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
610	**Rock Check Dam [6000406010052]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
620	**Rock Check Dam [6000406010053]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
630	**Rock Check Dam [6000406010054]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
640	**Rock Check Dam [6000406010055]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
650	**Rock Check Dam [6000406010056]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
660	**Rock Check Dam [6000406010057]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
670	**Rock Check Dam [6000406010058]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
680	**Rock Check Dam [6000406010074]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
690	**Rock Check Dam [6000406010075]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
700	**Rock Check Dam [6000406010076]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
710	**Rock Check Dam [6000406010077]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
720	**Rock Check Dam [6000406010098]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
730	**Rock Check Dam [6000406010099]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
740	**Gabion [6000407010035]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
750	**Gabion [6000407010036]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
760	**Gabion [6000407010037]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
770	**Gabion [6000407010038]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
780	**Trench Drain [6000409040046]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
790	**Drop inlet with filters [6000409020096]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
800	**Drop Inlet with Petro-Plug [6000409010100]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
810	**EnviroSoxx w/ MetalLoxx [6000403200103]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
820	**EnviroSoxx w/ MetalLoxx [6000403200104]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
830	**EnviroSoxx w/ MetalLoxx [6000403200105]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
840	**EnviroSoxx w/ MetalLoxx [6000403200106]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
850	**EnviroSoxx w/ MetalLoxx [6000403200107]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑

860	**EnviroSoxx w/ MetalLoxx [6000403200108]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
870	**EnviroSoxx w/ MetalLoxx [6000403200109]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
880	**EnviroSoxx w/ MetalLoxx [6000403200110]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
890	**EnviroSoxx w/ MetalLoxx [6000403200111]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
900	**EnviroSoxx w/ MetalLoxx [6000403200112]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
910	**EnviroSoxx w/ MetalLoxx [6000403200113]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
920	**EnviroSoxx w/ MetalLoxx [6000403200114]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
930	**TRM-Lined Swale [6000404080068]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
940	**TRM-Lined Swale [6000404080069]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
950	**Gravel Mulch [6000401050097]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑

Area/Activity exposed to stormwater (identify needed mainteance or a description of corrective actions in relevant task comment).

970	Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe. Comments: Metal storage is much improved here with the use of the conex boxes and canopy cover. There haven't been any recent issues with tarps tearing and blowing off since metal is under structural cover now.		☐	☐	☑
980	Transfer areas for substances in bulk: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
990	Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
1000	Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
1010	Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
1020	Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
1030	Fueling areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
1040	Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
1050	Machinery: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
1060	Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
1070	Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
1080	Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
1090	Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☑	☐
1100	Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
1110	Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
1120	Leaks and spills: controls adequate (appropriate, effective, and operating)? If "No" describe. Comments: See CAR 2100: There was a large fire truck on stands being worked on outside the northwest corner of TA-60-1. There were some drips and spills of oil on the concrete (~less than half a cup) underneath with very little spill controls being used.		☒	☐	☐
1130	**Sector P [60004-P]** Vehicle storage/maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑

Non-Compliance

1150	Free of incidents of observed non-compliance not already identified above? If "No" describe.		☐	☐	☑

Additional Control Measures

1170	Are permit requirements satisfied with existing control measure(s)? If "No" describe additional control measures needed.		☐	☐	☑

Labor Report

Completed: 6/16/2022 11:00:00 AM

Report: Jacob Knight, DEP

J. Knight	6/16/2022		
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: Larry Vecchione, Group Leader

Signature: Larry Vecchione Date: 6/20/2022

Los Alamos National Laboratory

Work Order MSGP-RI-66022

MSGP Routine Inspection
Printed 8/1/2022 - 12:49 PM

Maintenance Details

Requested: 7/6/2022 4:25:00 PM
Procedure: MSGP Routine Facility Inspection (EPC-CP-QP-2108 R0 Form 1)
Last PM: 6/16/2022
Project: Routine Facility Inspections July 2022 (P-MSGP-RI-5588)
Reason: 2022 July Inspections

Target: 7/31/2022
Priority/Type: / Inspection
Department: Utilities and Infrastructure

MSGP Program
RG121.9
TA-60-0001 Heavy Equipment Yard

Contact:
Phone:

Tasks

#	Description	Meas.	No	N/A	Yes
	Weather Information				
20	Describe the weather at time of inspection and document the temperature (F°). Comments: Mostly Sunny and 84 degrees F. No forecasted precip. today or tonight.		☐	☐	☑
	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.		☐	☐	☑
50	If "No" has a CAR been previously initiated for this new discharge?		☐	☑	☐
60	Is the facility free of discharge of pollutants at the time of inspection? If "No" describe.		☐	☐	☑
70	Is the facility free of evidence of, or the potential for, pollutants entering the drainage system. If "No" describe. Comments: See CAR# 2120 (4 rock check dams (10054, 10055, 10056, 10057) in the drainage west of SIDP 025 and 2 check dams (10012, 10058) south of SIDP 025 in the drainage path are filled with sediment and need repair/sediment removal. There is also some up gradient erosion leading into the check dam areas.		☒	☐	☐
	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 [022]** Free of Evidence of Erosion? If "No", describe.		☐	☐	☑
100	**Monitored Outfall [022]** Flow Dissipation Devices Operating Effectively? If "No", describe.		☐	☐	☑
110	**Monitored Outfall [022]** Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		☐	☐	☑
120	**Monitored Outfall [022]** Free of any unauthorized non-stormwater discharges? If "No" describe.		☐	☐	☑
130	**Substantially Identical Outfall [021]** Free of Evidence of Erosion? If "No", describe.		☐	☐	☑
140	**Substantially Identical Outfall [021]** Flow Dissipation Devices Operating Effectively? If "No", describe.		☐	☐	☑
150	**Substantially Identical Outfall [021]** Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		☐	☐	☑
160	**Substantially Identical Outfall [021]** Free of any unauthorized non-stormwater discharges? If "No" describe.		☐	☐	☑
170	**Substantially Identical Outfall [023]** Free of Evidence of Erosion? If "No", describe.		☐	☐	☑
180	**Substantially Identical Outfall [023]** Flow Dissipation Devices Operating Effectively? If "No", describe.		☐	☐	☑
190	**Substantially Identical Outfall [023]** Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		☐	☐	☑
200	**Substantially Identical Outfall [023]** Free of any unauthorized non-stormwater discharges? If "No" describe.		☐	☐	☑
210	**Substantially Identical Outfall [024]** Free of Evidence of Erosion? If "No", describe.		☐	☐	☑
220	**Substantially Identical Outfall [024]** Flow Dissipation Devices Operating Effectively? If		☐	☐	☑

	"No", describe.				
230	**Substantially Identical Outfall [024]** Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		☐	☐	☑
240	**Substantially Identical Outfall [024]** Free of any unauthorized non-stormwater discharges? If "No" describe.		☐	☐	☑
250	**Substantially Identical Outfall [025]** Free of Evidence of Erosion? If "No", describe.		☐	☐	☑
260	**Substantially Identical Outfall [025]** Flow Dissipation Devices Operating Effectively? If "No", describe.		☐	☐	☑
270	**Substantially Identical Outfall [025]** Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		☐	☐	☑
280	**Substantially Identical Outfall [025]** Free of any unauthorized non-stormwater discharges? If "No" describe.		☐	☐	☑
	Control Measures (identify needed maintenance and repairs, failed control measures that need replacment, or a description of corrective actions in relevant task comments).				
300	**Asphalt Berm [6000403040027]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
310	**Asphalt Berm [6000403040028]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
320	**Asphalt Berm [6000403040029]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
330	**Asphalt Berm [6000403040047]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
340	**Gravel Bags [6000403100061]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
350	**Gravel Bags [6000403100095]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
360	**Gravel Bags [6000403100101]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
370	**Concrete/Asphalt Channel/Swale [6000404020031]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
380	**Concrete/Asphalt Channel/Swale [6000404020032]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
390	**Eco-Block [6000403110060]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
400	**Rock Channel/Swale [6000404030023]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
410	**Rock Channel/Swale [6000404030043]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
420	**Rock Channel/Swale [6000404030073]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
430	**Rip Rap [6000404060002]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
440	**Rip Rap [6000404060039]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
450	**Earthen Channel/Swale [6000404010033]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
460	**Earthen Channel/Swale [6000404010034]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
470	**Gabion Swale [6000404090042]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
480	**Rock Check Dam [6000406010010]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
490	**Rock Check Dam [6000406010011]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
500	**Rock Check Dam [6000406010012]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
510	**Rock Check Dam [6000406010013]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
520	**Rock Check Dam [6000406010014]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑

530	**Rock Check Dam [6000406010015]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
540	**Rock Check Dam [6000406010016]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
550	**Rock Check Dam [6000406010017]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
560	**Rock Check Dam [6000406010018]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. Comments: See CAR 2120 noted in task item 70 above.		☒	☐	☐
570	**Rock Check Dam [6000406010019]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
580	**Rock Check Dam [6000406010020]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
590	**Rock Check Dam [6000406010021]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
600	**Rock Check Dam [6000406010022]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
610	**Rock Check Dam [6000406010052]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
620	**Rock Check Dam [6000406010053]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
630	**Rock Check Dam [6000406010054]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. Comments: See CAR 2120 noted in task item 70 above.		☒	☐	☐
640	**Rock Check Dam [6000406010055]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. Comments: See CAR 2120 noted in task item 70 above.		☒	☐	☐
650	**Rock Check Dam [6000406010056]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. Comments: See CAR 2120 noted in task item 70 above.		☒	☐	☐
660	**Rock Check Dam [6000406010057]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. Comments: See CAR 2120 noted in task item 70 above.		☒	☐	☐
670	**Rock Check Dam [6000406010058]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. Comments: See CAR 2120 noted in task item 70 above.		☒	☐	☐
680	**Rock Check Dam [6000406010074]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
690	**Rock Check Dam [6000406010075]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
700	**Rock Check Dam [6000406010076]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
710	**Rock Check Dam [6000406010077]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
720	**Rock Check Dam [6000406010098]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
730	**Rock Check Dam [6000406010099]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
740	**Gabion [6000407010035]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
750	**Gabion [6000407010036]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
760	**Gabion [6000407010037]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
770	**Gabion [6000407010038]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
780	**Trench Drain [6000409040046]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
790	**Drop inlet with filters [6000409020096]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
800	**Drop Inlet with Petro-Plug [6000409010100]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑

810	**EnviroSoxx w/ MetalLoxx [6000403200115]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
820	**EnviroSoxx w/ MetalLoxx [6000403200116]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
830	**EnviroSoxx w/ MetalLoxx [6000403200117]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
840	**EnviroSoxx w/ MetalLoxx [6000403200118]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
850	**EnviroSoxx w/ MetalLoxx [6000403200119]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
860	**EnviroSoxx w/ MetalLoxx [6000403200120]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
870	**EnviroSoxx w/ MetalLoxx [6000403200121]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
880	**EnviroSoxx w/ MetalLoxx [6000403200122]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
890	**EnviroSoxx w/ MetalLoxx [6000403200123]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
900	**EnviroSoxx w/ MetalLoxx [6000403200124]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
910	**EnviroSoxx w/ MetalLoxx [6000403200125]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
920	**EnviroSoxx w/ MetalLoxx [6000403200126]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
930	**TRM-Lined Swale [6000404080068]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
940	**TRM-Lined Swale [6000404080069]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
950	**Gravel Mulch [6000401050097]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑

Area/Activity exposed to stormwater (identify needed mainteance or a description of corrective actions in relevant task comment).

970	Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	☐	☐	☑
980	Transfer areas for substances in bulk: controls adequate (appropriate, effective, and operating)? If "No" describe.	☐	☐	☑
990	Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe.	☐	☐	☑
1000	Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe.	☐	☐	☑
1010	Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	☐	☐	☑
1020	Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	☐	☐	☑
1030	Fueling areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	☐	☐	☑
1040	Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	☐	☐	☑
1050	Machinery: controls adequate (appropriate, effective, and operating)? If "No" describe.	☐	☐	☑
1060	Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If "No" describe. **Comments: See CAR # 2119: There was a small blue metal recycle bin on the outside bay area of the east side of 60-1 that had a tarp with holes in it.**	☒	☐	☐
1070	Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If "No" describe.	☐	☐	☑
1080	Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If "No" describe.	☐	☐	☑
1090	Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If "No" describe.	☐	☑	☐
1100	Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If "No" describe.	☐	☐	☑

1110	Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
1120	Leaks and spills: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
1130	**Sector P [60004-P]** Vehicle storage/maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
	Non-Compliance				
1150	Free of incidents of observed non-compliance not already identified above? If "No" describe.		☐	☐	☑
	Additional Control Measures				
1170	Are permit requirements satisfied with existing control measure(s)? If "No" describe additional control measures needed.		☐	☐	☑

Labor Report

Completed: 7/18/2022 12:00:00 PM

Report: Jacob Knight, DEP

J. Knight	7/18/2022		
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: LARRY VELASQUEZ, LOG-HERC GROUP LEADER

Signature: Larry Velasquez Date: 8/9/2022

Los Alamos National Laboratory

Work Order MSGP-RI-66108

MSGP Routine Inspection
Printed 9/1/2022 - 8:41 AM

Maintenance Details

Requested: 7/29/2022 2:43:00 PM
Procedure: MSGP Routine Facility Inspection (EPC-CP-QP-2108 R0 Form 1)
Last PM: 7/18/2022
Project: Routine Facility Inspections August 2022 (P-MSGP-RI-5597)

Target: 8/31/2022
Priority/Type: Normal / Inspection
Department: Utilities and Infrastructure

MSGP Program
RG121.9
TA-60-0001 Heavy Equipment Yard

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°). Comments: Partly sunny and 68 degrees F. 20% chance of isolated storms.		☐	☐	☑
	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.		☐	☐	☑
50	If "No" has a CAR been previously initiated for this new discharge?		☐	☑	☐
60	Is the facility free of discharge of pollutants at the time of inspection? If "No" describe.		☐	☐	☑
70	Is the facility free of evidence of, or the potential for, pollutants entering the drainage system. If "No" describe. Comments: See CAR # 2132: Due to recent heavy rains several of the check dams in the drainage along Maniac rd leading to outfall 025 along the NW perimeter of the heavy equipment upper staging yard have need maintenance and sediment removal.		☒	☐	☐
	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 [022]** Free of Evidence of Erosion? If "No", describe.		☐	☐	☑
100	**Monitored Outfall [022]** Flow Dissipation Devices Operating Effectively? If "No", describe.		☐	☐	☑
110	**Monitored Outfall [022]** Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		☐	☐	☑
120	**Monitored Outfall [022]** Free of any unauthorized non-stormwater discharges? If "No" describe.		☐	☐	☑
130	**Substantially Identical Discharge Point [021]** Free of Evidence of Erosion? If "No", describe.		☐	☐	☑
140	**Substantially Identical Discharge Point [021]** Flow Dissipation Devices Operating Effectively? If "No", describe.		☐	☐	☑
150	**Substantially Identical Discharge Point [021]** Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		☐	☐	☑
160	**Substantially Identical Discharge Point [021]** Free of any unauthorized non-stormwater discharges? If "No" describe.		☐	☐	☑
170	**Substantially Identical Discharge Point [023]** Free of Evidence of Erosion? If "No", describe.		☐	☐	☑
180	**Substantially Identical Discharge Point [023]** Flow Dissipation Devices Operating Effectively? If "No", describe.		☐	☐	☑
190	**Substantially Identical Discharge Point [023]** Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		☐	☐	☑
200	**Substantially Identical Discharge Point [023]** Free of any unauthorized non-stormwater discharges? If "No" describe.		☐	☐	☑
210	**Substantially Identical Discharge Point [024]** Free of Evidence of Erosion? If "No", describe.		☐	☐	☑
220	**Substantially Identical Discharge Point [024]** Flow Dissipation Devices Operating Effectively? If "No", describe.		☐	☐	☑

230	**Substantially Identical Discharge Point [024]** Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.	☐	☐	☑
240	**Substantially Identical Discharge Point [024]** Free of any unauthorized non-stormwater discharges? If "No" describe.	☐	☐	☑
250	**Substantially Identical Discharge Point [025]** Free of Evidence of Erosion? If "No", describe.	☐	☐	☑
260	**Substantially Identical Discharge Point [025]** Flow Dissipation Devices Operating Effectively? If "No", describe.	☐	☐	☑
270	**Substantially Identical Discharge Point [025]** Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.	☐	☐	☑
280	**Substantially Identical Discharge Point [025]** Free of any unauthorized non-stormwater discharges? If "No" describe.	☐	☐	☑

Control Measures (identify needed maintenance and repairs, failed control measures that need replacment, or a description of corrective actions in relevant task comments).

300	**Asphalt Berm [6000403040027]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
310	**Asphalt Berm [6000403040028]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
320	**Asphalt Berm [6000403040029]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
330	**Asphalt Berm [6000403040047]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
340	**Gravel Bags [6000403100061]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
350	**Gravel Bags [6000403100095]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
360	**Gravel Bags [6000403100101]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
370	**Concrete/Asphalt Channel/Swale [6000404020031]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
380	**Concrete/Asphalt Channel/Swale [6000404020032]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
390	**Eco-Block [6000403110060]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
400	**Rock Channel/Swale [6000404030023]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
410	**Rock Channel/Swale [6000404030043]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
420	**Rock Channel/Swale [6000404030073]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
430	**Rip Rap [6000404060002]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
440	**Rip Rap [6000404060039]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
450	**Earthen Channel/Swale [6000404010033]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
460	**Earthen Channel/Swale [6000404010034]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
470	**Gabion Swale [6000404090042]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
480	**Rock Check Dam [6000406010010]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
490	**Rock Check Dam [6000406010011]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
500	**Rock Check Dam [6000406010012]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
510	**Rock Check Dam [6000406010013]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
520	**Rock Check Dam [6000406010014]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
530	**Rock Check Dam [6000406010015]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑

540	**Rock Check Dam [6000406010016]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
550	**Rock Check Dam [6000406010017]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
560	**Rock Check Dam [6000406010018]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
570	**Rock Check Dam [6000406010019]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
580	**Rock Check Dam [6000406010020]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
590	**Rock Check Dam [6000406010021]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
600	**Rock Check Dam [6000406010022]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
610	**Rock Check Dam [6000406010052]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
620	**Rock Check Dam [6000406010053]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
630	**Rock Check Dam [6000406010054]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. **Comments: See CAR # 2132: Due to recent heavy rains several of the check dams in the drainage along Maniac rd leading to outfall 025 along the NW perimeter of the heavy equipment upper staging yard have need maintenance and sediment removal.**	☒	☐	☐
640	**Rock Check Dam [6000406010055]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. **Comments: See CAR # 2132: Due to recent heavy rains several of the check dams in the drainage along Maniac rd leading to outfall 025 along the NW perimeter of the heavy equipment upper staging yard have need maintenance and sediment removal.**	☒	☐	☐
650	**Rock Check Dam [6000406010056]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
660	**Rock Check Dam [6000406010057]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. **Comments: See CAR # 2132: Due to recent heavy rains several of the check dams in the drainage along Maniac rd leading to outfall 025 along the NW perimeter of the heavy equipment upper staging yard have need maintenance and sediment removal.**	☒	☐	☐
670	**Rock Check Dam [6000406010058]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
680	**Rock Check Dam [6000406010074]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
690	**Rock Check Dam [6000406010075]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
700	**Rock Check Dam [6000406010076]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
710	**Rock Check Dam [6000406010077]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
720	**Rock Check Dam [6000406010098]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
730	**Rock Check Dam [6000406010099]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
740	**Gabion [6000407010035]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
750	**Gabion [6000407010036]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
760	**Gabion [6000407010037]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
770	**Gabion [6000407010038]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
780	**Trench Drain [6000409040046]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
790	**Drop inlet with filters [6000409020096]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
800	**Drop Inlet with Petro-Plug [6000409010100]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
810	**EnviroSoxx w/ MetalLoxx [6000403200115]** Control Measure is operating effectively? If	☐	☐	☑

	"No" describe condition & need for Maintenance, Repair, or Replacement.				
820	**EnviroSoxx w/ MetalLoxx [6000403200116]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
830	**EnviroSoxx w/ MetalLoxx [6000403200117]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. **Comments: See CAR # 2133: L Due to recent heavy rains several of the MetalLox wattles that were installed just up gradient of the automated sampler 2201 and outfall 022 have been displaced and need to be re-installed.**		☒	☐	☐
840	**EnviroSoxx w/ MetalLoxx [6000403200118]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
850	**EnviroSoxx w/ MetalLoxx [6000403200119]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
860	**EnviroSoxx w/ MetalLoxx [6000403200120]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
870	**EnviroSoxx w/ MetalLoxx [6000403200121]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
880	**EnviroSoxx w/ MetalLoxx [6000403200122]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
890	**EnviroSoxx w/ MetalLoxx [6000403200123]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. **Comments: See CAR # 2133: L Due to recent heavy rains several of the MetalLox wattles that were installed just up gradient of the automated sampler 2201 and outfall 022 have been displaced and need to be re-installed.**		☒	☐	☐
900	**EnviroSoxx w/ MetalLoxx [6000403200124]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. **Comments: See CAR # 2133: L Due to recent heavy rains several of the MetalLox wattles that were installed just up gradient of the automated sampler 2201 and outfall 022 have been displaced and need to be re-installed.**		☒	☐	☐
910	**EnviroSoxx w/ MetalLoxx [6000403200125]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. **Comments: See CAR # 2133: L Due to recent heavy rains several of the MetalLox wattles that were installed just up gradient of the automated sampler 2201 and outfall 022 have been displaced and need to be re-installed.**		☒	☐	☐
920	**EnviroSoxx w/ MetalLoxx [6000403200126]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. **Comments: See CAR # 2133: L Due to recent heavy rains several of the MetalLox wattles that were installed just up gradient of the automated sampler 2201 and outfall 022 have been displaced and need to be re-installed.**		☒	☐	☐
930	**TRM-Lined Swale [6000404080068]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
940	**TRM-Lined Swale [6000404080069]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
950	**Gravel Mulch [6000401050097]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
Area/Activity exposed to stormwater (identify needed mainteance or a description of corrective actions in relevant task comment).					
970	Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
980	Transfer areas for substances in bulk: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
990	Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
1000	Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
1010	Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
1020	Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
1030	Fueling areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
1040	Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
1050	Machinery: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
1060	Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		☒	☐	☐

	Comments: See CAR # 2134: Small metal recycle bin on the east side of TA-60-1 was uncovered and associated tarp near it has holes and needs to be replaced. Also there was some small pieces of metal on the ground that needed to be cleaned up.				
1070	Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
1080	Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
1090	Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☑	☐
1100	Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
1110	Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
1120	Leaks and spills: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
1130	**Sector P [60004-P]** Vehicle storage/maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
	Non-Compliance				
1150	Free of incidents of observed non-compliance not already identified above? If "No" describe.		☐	☐	☑
	Additional Control Measures				
1170	Are permit requirements satisfied with existing control measure(s)? If "No" describe additional control measures needed.		☐	☐	☑

Labor Report

Completed: 8/19/2022 11:00:00 AM

Report: Jacob Knight, DEP

J Knight

Signature / Name

8/19/2022

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: LARRY VELASQUEZ, LOS-HERC GROUP LEADER

Signature: Larry Velasquez Date: 9/9/2022

Los Alamos National Laboratory

Work Order MSGP-RI-66123

MSGP Routine Inspection
Printed 10/3/2022 - 5:32 PM

Maintenance Details

Requested: 9/1/2022 8:52:00 AM
Procedure: MSGP Routine Facility Inspection (EPC-CP-QP-2108 R0 Form 1)
Last PM: 8/19/2022
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
RG121.9
TA-60-0001 Heavy Equipment Yard

Contact:
Phone:

Tasks

#	Description	Meas.	No	N/A	Yes
	Weather Information				
20	Describe the weather at time of inspection and document the temperature (F°). Comments: Mostly sunny and 62 degrees F.		☐	☐	☑
	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.		☐	☐	☑
50	If "No" has a CAR been previously initiated for this new discharge?		☐	☑	☐
60	Is the facility free of discharge of pollutants at the time of inspection? If "No" describe.		☐	☐	☑
70	Is the facility free of evidence of, or the potential for, pollutants entering the drainage system. If "No" describe.		☐	☐	☑
	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 [022]** Free of Evidence of Erosion? If "No", describe.		☐	☐	☑
100	**Monitored Outfall [022]** Flow Dissipation Devices Operating Effectively? If "No", describe.		☐	☐	☑
110	**Monitored Outfall [022]** Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		☐	☐	☑
120	**Monitored Outfall [022]** Free of any unauthorized non-stormwater discharges? If "No" describe.		☐	☐	☑
130	**Substantially Identical Discharge Point [021]** Free of Evidence of Erosion? If "No", describe.		☐	☐	☑
140	**Substantially Identical Discharge Point [021]** Flow Dissipation Devices Operating Effectively? If "No", describe.		☐	☐	☑
150	**Substantially Identical Discharge Point [021]** Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		☐	☐	☑
160	**Substantially Identical Discharge Point [021]** Free of any unauthorized non-stormwater discharges? If "No" describe.		☐	☐	☑
170	**Substantially Identical Discharge Point [023]** Free of Evidence of Erosion? If "No", describe.		☐	☐	☑
180	**Substantially Identical Discharge Point [023]** Flow Dissipation Devices Operating Effectively? If "No", describe.		☐	☐	☑
190	**Substantially Identical Discharge Point [023]** Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		☐	☐	☑
200	**Substantially Identical Discharge Point [023]** Free of any unauthorized non-stormwater discharges? If "No" describe.		☐	☐	☑
210	**Substantially Identical Discharge Point [024]** Free of Evidence of Erosion? If "No", describe.		☐	☐	☑
220	**Substantially Identical Discharge Point [024]** Flow Dissipation Devices Operating Effectively? If "No", describe.		☐	☐	☑

230	**Substantially Identical Discharge Point [024]** Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		☐	☐	☑
240	**Substantially Identical Discharge Point [024]** Free of any unauthorized non-stormwater discharges? If "No" describe.		☐	☐	☑
250	**Substantially Identical Discharge Point [025]** Free of Evidence of Erosion? If "No", describe.		☐	☐	☑
260	**Substantially Identical Discharge Point [025]** Flow Dissipation Devices Operating Effectively? If "No", describe.		☐	☐	☑
270	**Substantially Identical Discharge Point [025]** Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		☐	☐	☑
280	**Substantially Identical Discharge Point [025]** Free of any unauthorized non-stormwater discharges? If "No" describe.		☐	☐	☑

Control Measures (identify needed maintenance and repairs, failed control measures that need replacment, or a description of corrective actions in relevant task comments).

300	**Asphalt Berm [6000403040027]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
310	**Asphalt Berm [6000403040028]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
320	**Asphalt Berm [6000403040029]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
330	**Asphalt Berm [6000403040047]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
340	**Gravel Bags [6000403100061]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
350	**Gravel Bags [6000403100095]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. **Comments: Controls are still operational but need maintenance including sediment removal. See CAR 2148: There is a drop inlet (outfall 023) in the lower east yard at the heavy equipment shop with gravel bags in disrepair and sediment accumulation around them that needs to be cleaned up and removed.**		☒	☐	☐
360	**Gravel Bags [6000403100101]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
370	**Concrete/Asphalt Channel/Swale [6000404020031]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
380	**Concrete/Asphalt Channel/Swale [6000404020032]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
390	**Eco-Block [6000403110060]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
400	**Rock Channel/Swale [6000404030023]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
410	**Rock Channel/Swale [6000404030043]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
420	**Rock Channel/Swale [6000404030073]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
430	**Rip Rap [6000404060002]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
440	**Rip Rap [6000404060039]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
450	**Earthen Channel/Swale [6000404010033]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
460	**Earthen Channel/Swale [6000404010034]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
470	**Gabion Swale [6000404090042]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
480	**Rock Check Dam [6000406010010]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
490	**Rock Check Dam [6000406010011]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
500	**Rock Check Dam [6000406010012]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
510	**Rock Check Dam [6000406010013]** Control Measure is operating effectively? If "No"		☐	☐	☑

	describe condition & need for Maintenance, Repair, or Replacement.				
520	**Rock Check Dam [6000406010014]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
530	**Rock Check Dam [6000406010015]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
540	**Rock Check Dam [6000406010016]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
550	**Rock Check Dam [6000406010017]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
560	**Rock Check Dam [6000406010018]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
570	**Rock Check Dam [6000406010019]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
580	**Rock Check Dam [6000406010020]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
590	**Rock Check Dam [6000406010021]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
600	**Rock Check Dam [6000406010022]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
610	**Rock Check Dam [6000406010052]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
620	**Rock Check Dam [6000406010053]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
630	**Rock Check Dam [6000406010054]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
640	**Rock Check Dam [6000406010055]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
650	**Rock Check Dam [6000406010056]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
660	**Rock Check Dam [6000406010057]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
670	**Rock Check Dam [6000406010058]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
680	**Rock Check Dam [6000406010074]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
690	**Rock Check Dam [6000406010075]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
700	**Rock Check Dam [6000406010076]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
710	**Rock Check Dam [6000406010077]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
720	**Rock Check Dam [6000406010098]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
730	**Rock Check Dam [6000406010099]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
740	**Gabion [6000407010035]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
750	**Gabion [6000407010036]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
760	**Gabion [6000407010037]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
770	**Gabion [6000407010038]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
780	**Trench Drain [6000409040046]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
790	**Drop inlet with filters [6000409020096]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
800	**Drop Inlet with Petro-Plug [6000409010100]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
810	**EnviroSoxx w/ MetalLoxx [6000403200115]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑

820	**EnviroSoxx w/ MetalLoxx [6000403200116]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
830	**EnviroSoxx w/ MetalLoxx [6000403200117]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
840	**EnviroSoxx w/ MetalLoxx [6000403200118]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
850	**EnviroSoxx w/ MetalLoxx [6000403200119]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
860	**EnviroSoxx w/ MetalLoxx [6000403200120]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
870	**EnviroSoxx w/ MetalLoxx [6000403200121]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
880	**EnviroSoxx w/ MetalLoxx [6000403200122]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
890	**EnviroSoxx w/ MetalLoxx [6000403200123]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
900	**EnviroSoxx w/ MetalLoxx [6000403200124]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
910	**EnviroSoxx w/ MetalLoxx [6000403200125]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
920	**EnviroSoxx w/ MetalLoxx [6000403200126]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
930	**TRM-Lined Swale [6000404080068]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
940	**TRM-Lined Swale [6000404080069]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
950	**Gravel Mulch [6000401050097]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
	Area/Activity exposed to stormwater (identify needed mainteance or a description of corrective actions in relevant task comment).			
970	Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	☐	☐	☑
980	Transfer areas for substances in bulk: controls adequate (appropriate, effective, and operating)? If "No" describe.	☐	☐	☑
990	Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe.	☐	☐	☑
1000	Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe.	☐	☐	☑
1010	Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	☐	☐	☑
1020	Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	☐	☐	☑
1030	Fueling areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	☐	☐	☑
1040	Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	☐	☐	☑
1050	Machinery: controls adequate (appropriate, effective, and operating)? If "No" describe.	☐	☐	☑
1060	Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	☐	☐	☑
1070	Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If "No" describe.	☐	☐	☑
1080	Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If "No" describe.	☐	☐	☑
1090	Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If "No" describe.	☐	☐	☑
1100	Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If "No" describe.	☐	☑	☐
1110	Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If "No" describe.	☐	☐	☑
1120	Leaks and spills: controls adequate (appropriate, effective, and operating)? If "No"	☒	☐	☐

describe.
Comments: See CAR 2149: A mechanic was performing maintenance on a LANL man lift outside one of the east bays at 60-1 when approximately 1/2 quart of hydraulic oil spilled on the concrete. Secondary containment was initially used to capture most of the oil but this was unexpected. See CAR 2150: A Barko masticator was parked on the bay above the trench that drains to the oil water separator (OWS). The machine was sprayed down but greasy material was splashed over a ~30 st. ft area on the asphalt outside of the bay down gradient of the trench drain.

1130	**Sector P [60004-P]** Vehicle storage/maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑

Non-Compliance

1150	Free of incidents of observed non-compliance not already identified above? If "No" describe.		☐	☐	☑

Additional Control Measures

1170	Are permit requirements satisfied with existing control measure(s)? If "No" describe additional control measures needed.		☐	☐	☑

Labor Report

Completed: 9/29/2022 12:00:00 PM

Report: Jacob Knight, DEP

J Knight	9/30/2022		
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: LARRY VEASOUEZ

Signature: [signature] Date: 10/17/2022

Los Alamos National Laboratory

Work Order MSGP-RI-66160

MSGP Routine Inspection
Printed 10/31/2022 - 12:55 PM

Maintenance Details

Requested: 9/29/2022 3:52:00 PM
Procedure: MSGP Routine Facility Inspection (EPC-CP-QP-2108 R0 Form 1)
Last PM: 9/29/2022
Project: Routine Facility Inspections October 2022 (P-MSGP-RI-5602)
Reason: 2022 October Inspection

Target: 10/31/2022
Priority/Type: Normal / Inspection
Department: Utilities and Infrastructure

MSGP Program
RG121.9
TA-60-0001 Heavy Equipment Yard

Contact:
Phone:

Tasks

#	Description	Meas.	No	N/A	Yes
	Weather Information				
20	Describe the weather at time of inspection and document the temperature (F°). Comments: Sunny and 44 degrees F.		☐	☐	☑
	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.		☐	☐	☑
50	If "No" has a CAR been previously initiated for this new discharge?		☐	☑	☐
60	Is the facility free of discharge of pollutants at the time of inspection? If "No" describe.		☐	☐	☑
70	Is the facility free of evidence of, or the potential for, pollutants entering the drainage system. If "No" describe.		☐	☐	☑
	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 [022]** Free of Evidence of Erosion? If "No", describe.		☐	☐	☑
100	**Monitored Outfall [022]** Flow Dissipation Devices Operating Effectively? If "No", describe.		☐	☐	☑
110	**Monitored Outfall [022]** Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		☐	☐	☑
120	**Monitored Outfall [022]** Free of any unauthorized non-stormwater discharges? If "No" describe.		☐	☐	☑
130	**Substantially Identical Discharge Point [021]** Free of Evidence of Erosion? If "No", describe.		☐	☐	☑
140	**Substantially Identical Discharge Point [021]** Flow Dissipation Devices Operating Effectively? If "No", describe.		☐	☐	☑
150	**Substantially Identical Discharge Point [021]** Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		☐	☐	☑
160	**Substantially Identical Discharge Point [021]** Free of any unauthorized non-stormwater discharges? If "No" describe.		☐	☐	☑
170	**Substantially Identical Discharge Point [023]** Free of Evidence of Erosion? If "No", describe.		☐	☐	☑
180	**Substantially Identical Discharge Point [023]** Flow Dissipation Devices Operating Effectively? If "No", describe.		☐	☐	☑
190	**Substantially Identical Discharge Point [023]** Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		☐	☐	☑
200	**Substantially Identical Discharge Point [023]** Free of any unauthorized non-stormwater discharges? If "No" describe.		☐	☐	☑
210	**Substantially Identical Discharge Point [024]** Free of Evidence of Erosion? If "No", describe.		☐	☐	☑
220	**Substantially Identical Discharge Point [024]** Flow Dissipation Devices Operating Effectively? If "No", describe.		☐	☐	☑

230	**Substantially Identical Discharge Point [024]** Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		☐	☐	☑
240	**Substantially Identical Discharge Point [024]** Free of any unauthorized non-stormwater discharges? If "No" describe.		☐	☐	☑
250	**Substantially Identical Discharge Point [025]** Free of Evidence of Erosion? If "No", describe.		☐	☐	☑
260	**Substantially Identical Discharge Point [025]** Flow Dissipation Devices Operating Effectively? If "No", describe.		☐	☐	☑
270	**Substantially Identical Discharge Point [025]** Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		☐	☐	☑
280	**Substantially Identical Discharge Point [025]** Free of any unauthorized non-stormwater discharges? If "No" describe.		☐	☐	☑

Control Measures (identify needed maintenance and repairs, failed control measures that need replacment, or a description of corrective actions in relevant task comments).

300	**Asphalt Berm [6000403040027]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
310	**Asphalt Berm [6000403040028]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
320	**Asphalt Berm [6000403040029]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
330	**Asphalt Berm [6000403040047]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
340	**Gravel Bags [6000403100061]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
350	**Gravel Bags [6000403100095]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
360	**Gravel Bags [6000403100101]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
370	**Concrete/Asphalt Channel/Swale [6000404020031]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
380	**Concrete/Asphalt Channel/Swale [6000404020032]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
390	**Eco-Block [6000403110060]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
400	**Rock Channel/Swale [6000404030023]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
410	**Rock Channel/Swale [6000404030043]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
420	**Rock Channel/Swale [6000404030073]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
430	**Rip Rap [6000404060002]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
440	**Rip Rap [6000404060039]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
450	**Earthen Channel/Swale [6000404010033]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
460	**Earthen Channel/Swale [6000404010034]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
470	**Gabion Swale [6000404090042]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
480	**Rock Check Dam [6000406010010]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
490	**Rock Check Dam [6000406010011]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
500	**Rock Check Dam [6000406010012]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
510	**Rock Check Dam [6000406010013]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
520	**Rock Check Dam [6000406010014]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
			☐	☐	

530	**Rock Check Dam [6000406010015]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.				☑
540	**Rock Check Dam [6000406010016]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
550	**Rock Check Dam [6000406010017]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
560	**Rock Check Dam [6000406010018]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
570	**Rock Check Dam [6000406010019]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
580	**Rock Check Dam [6000406010020]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
590	**Rock Check Dam [6000406010021]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
600	**Rock Check Dam [6000406010022]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
610	**Rock Check Dam [6000406010052]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
620	**Rock Check Dam [6000406010053]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
630	**Rock Check Dam [6000406010054]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
640	**Rock Check Dam [6000406010055]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
650	**Rock Check Dam [6000406010056]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
660	**Rock Check Dam [6000406010057]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
670	**Rock Check Dam [6000406010058]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
680	**Rock Check Dam [6000406010074]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
690	**Rock Check Dam [6000406010075]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
700	**Rock Check Dam [6000406010076]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
710	**Rock Check Dam [6000406010077]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
720	**Rock Check Dam [6000406010098]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
730	**Rock Check Dam [6000406010099]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
740	**Gabion [6000407010035]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
750	**Gabion [6000407010036]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
760	**Gabion [6000407010037]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
770	**Gabion [6000407010038]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
780	**Trench Drain [6000409040046]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
790	**Drop inlet with filters [6000409020096]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
800	**Drop Inlet with Petro-Plug [6000409010100]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
810	**EnviroSoxx w/ MetalLoxx [6000403200115]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
820	**EnviroSoxx w/ MetalLoxx [6000403200116]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
830	**EnviroSoxx w/ MetalLoxx [6000403200117]** Control Measure is operating effectively? If		☐	☐	☑

	"No" describe condition & need for Maintenance, Repair, or Replacement.				
840	**EnviroSoxx w/ MetalLoxx [6000403200118]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
850	**EnviroSoxx w/ MetalLoxx [6000403200119]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
860	**EnviroSoxx w/ MetalLoxx [6000403200120]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
870	**EnviroSoxx w/ MetalLoxx [6000403200121]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
880	**EnviroSoxx w/ MetalLoxx [6000403200122]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
890	**EnviroSoxx w/ MetalLoxx [6000403200123]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
900	**EnviroSoxx w/ MetalLoxx [6000403200124]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
910	**EnviroSoxx w/ MetalLoxx [6000403200125]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
920	**EnviroSoxx w/ MetalLoxx [6000403200126]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
930	**TRM-Lined Swale [6000404080068]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
940	**TRM-Lined Swale [6000404080069]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
950	**Gravel Mulch [6000401050097]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
	Area/Activity exposed to stormwater (identify needed mainteance or a description of corrective actions in relevant task comment).				
970	Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
980	Transfer areas for substances in bulk: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
990	Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
1000	Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
1010	Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
1020	Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
1030	Fueling areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
1040	Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
1050	Machinery: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
1060	Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If "No" describe. **Comments: See CAR #2154: The metal recycle bin was covered with a tarp but the tarp is not quite the right size or it didn't function properly because there is some ponded water inside the bin.**		☒	☐	☐
1070	Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
1080	Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
1090	Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☑	☐
1100	Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
1110	Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
1120	Leaks and spills: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑

1130	**Sector P [60004-P]** Vehicle storage/maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑

Non-Compliance

1150	Free of incidents of observed non-compliance not already identified above? If "No" describe.		☐	☐	☑

Additional Control Measures

1170	Are permit requirements satisfied with existing control measure(s)? If "No" describe additional control measures needed.		☐	☐	☑

Labor Report

Completed: 10/28/2022 11:00:00 AM

Report: Jacob Knight, DEP

J. Knight	10/28/2022		
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: Larry Vousouet - Group Leader

Signature: [signature] Date: 11/1/2022

Los Alamos National Laboratory

Work Order MSGP-RI-66212
MSGP Routine Inspection
Printed 11/28/2022 - 11:37 AM

Maintenance Details

Requested: 10/28/2022 2:02:00 AM
Procedure: MSGP Routine Facility Inspection (EPC-CP-QP-2108 R0 Form 1)
Last PM: 10/31/2022
Project: Routine Facility Inspections November 2022 (P-MSGP-RI-5607)
Reason: 2022 November Inspection

Target: 11/30/2022
Priority/Type: Normal / Inspection
Department: Utilities and Infrastructure

MSGP Program
RG121.9
TA-60-0001 Heavy Equipment Yard

Contact:
Phone:

Tasks

#	Description	Meas.	No	N/A	Yes
Weather Information					
20	Describe the weather at time of inspection and document the temperature (F°). Comments: Sunny and 43 degrees F		☐	☐	☑
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.		☐	☐	☑
50	If "No" has a CAR been previously initiated for this new discharge?		☐	☑	☐
60	Is the facility free of discharge of pollutants at the time of inspection? If "No" describe.		☐	☐	☑
70	Is the facility free of evidence of, or the potential for, pollutants entering the drainage system. If "No" describe.		☐	☐	☑
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 [022]** Free of Evidence of Erosion? If "No", describe.		☐	☐	☑
100	**Monitored Outfall [022]** Flow Dissipation Devices Operating Effectively? If "No", describe.		☐	☐	☑
110	**Monitored Outfall [022]** Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		☐	☐	☑
120	**Monitored Outfall [022]** Free of any unauthorized non-stormwater discharges? If "No" describe.		☐	☐	☑
130	**Substantially Identical Discharge Point [021]** Free of Evidence of Erosion? If "No", describe.		☐	☐	☑
140	**Substantially Identical Discharge Point [021]** Flow Dissipation Devices Operating Effectively? If "No", describe.		☐	☐	☑
150	**Substantially Identical Discharge Point [021]** Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		☐	☐	☑
160	**Substantially Identical Discharge Point [021]** Free of any unauthorized non-stormwater discharges? If "No" describe.		☐	☐	☑
170	**Substantially Identical Discharge Point [023]** Free of Evidence of Erosion? If "No", describe.		☐	☐	☑
180	**Substantially Identical Discharge Point [023]** Flow Dissipation Devices Operating Effectively? If "No", describe.		☐	☐	☑
190	**Substantially Identical Discharge Point [023]** Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		☐	☐	☑
200	**Substantially Identical Discharge Point [023]** Free of any unauthorized non-stormwater discharges? If "No" describe.		☐	☐	☑
210	**Substantially Identical Discharge Point [024]** Free of Evidence of Erosion? If "No", describe.		☐	☐	☑
220	**Substantially Identical Discharge Point [024]** Flow Dissipation Devices Operating Effectively? If "No", describe.		☐	☐	☑

230	**Substantially Identical Discharge Point [024]** Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		☐	☐	☑
240	**Substantially Identical Discharge Point [024]** Free of any unauthorized non-stormwater discharges? If "No" describe.		☐	☐	☑
250	**Substantially Identical Discharge Point [025]** Free of Evidence of Erosion? If "No", describe.		☐	☐	☑
260	**Substantially Identical Discharge Point [025]** Flow Dissipation Devices Operating Effectively? If "No", describe.		☐	☐	☑
270	**Substantially Identical Discharge Point [025]** Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		☐	☐	☑
280	**Substantially Identical Discharge Point [025]** Free of any unauthorized non-stormwater discharges? If "No" describe.		☐	☐	☑

Control Measures (identify needed maintenance and repairs, failed control measures that need replacment, or a description of corrective actions in relevant task comments).

300	**Asphalt Berm [6000403040027]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
310	**Asphalt Berm [6000403040028]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
320	**Asphalt Berm [6000403040029]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
330	**Asphalt Berm [6000403040047]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
340	**Gravel Bags [6000403100061]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
350	**Gravel Bags [6000403100095]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
360	**Gravel Bags [6000403100101]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
370	**Concrete/Asphalt Channel/Swale [6000404020031]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
380	**Concrete/Asphalt Channel/Swale [6000404020032]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
390	**Eco-Block [6000403110060]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
400	**Rock Channel/Swale [6000404030023]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
410	**Rock Channel/Swale [6000404030043]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
420	**Rock Channel/Swale [6000404030073]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
430	**Rip Rap [6000404060002]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
440	**Rip Rap [6000404060039]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
450	**Earthen Channel/Swale [6000404010033]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
460	**Earthen Channel/Swale [6000404010034]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
470	**Gabion Swale [6000404090042]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
480	**Rock Check Dam [6000406010010]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
490	**Rock Check Dam [6000406010011]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
500	**Rock Check Dam [6000406010012]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
510	**Rock Check Dam [6000406010013]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
520	**Rock Check Dam [6000406010014]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
			☐	☐	

530	**Rock Check Dam [6000406010015]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.				☑
540	**Rock Check Dam [6000406010016]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
550	**Rock Check Dam [6000406010017]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
560	**Rock Check Dam [6000406010018]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
570	**Rock Check Dam [6000406010019]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
580	**Rock Check Dam [6000406010020]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
590	**Rock Check Dam [6000406010021]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
600	**Rock Check Dam [6000406010022]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
610	**Rock Check Dam [6000406010052]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
620	**Rock Check Dam [6000406010053]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
630	**Rock Check Dam [6000406010054]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
640	**Rock Check Dam [6000406010055]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
650	**Rock Check Dam [6000406010056]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
660	**Rock Check Dam [6000406010057]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
670	**Rock Check Dam [6000406010058]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
680	**Rock Check Dam [6000406010074]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
690	**Rock Check Dam [6000406010075]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
700	**Rock Check Dam [6000406010076]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
710	**Rock Check Dam [6000406010077]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
720	**Rock Check Dam [6000406010098]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
730	**Rock Check Dam [6000406010099]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
740	**Gabion [6000407010035]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
750	**Gabion [6000407010036]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
760	**Gabion [6000407010037]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
770	**Gabion [6000407010038]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
780	**Trench Drain [6000409040046]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
790	**Drop inlet with filters [6000409020096]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
800	**Drop Inlet with Petro-Plug [6000409010100]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
810	**EnviroSoxx w/ MetalLoxx [6000403200115]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
820	**EnviroSoxx w/ MetalLoxx [6000403200116]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
830	**EnviroSoxx w/ MetalLoxx [6000403200117]** Control Measure is operating effectively? If		☐	☐	☑

	"No" describe condition & need for Maintenance, Repair, or Replacement.				
840	**EnviroSoxx w/ MetalLoxx [6000403200118]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
850	**EnviroSoxx w/ MetalLoxx [6000403200119]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
860	**EnviroSoxx w/ MetalLoxx [6000403200120]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
870	**EnviroSoxx w/ MetalLoxx [6000403200121]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
880	**EnviroSoxx w/ MetalLoxx [6000403200122]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
890	**EnviroSoxx w/ MetalLoxx [6000403200123]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
900	**EnviroSoxx w/ MetalLoxx [6000403200124]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
910	**EnviroSoxx w/ MetalLoxx [6000403200125]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
920	**EnviroSoxx w/ MetalLoxx [6000403200126]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
930	**TRM-Lined Swale [6000404080068]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
940	**TRM-Lined Swale [6000404080069]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
950	**Gravel Mulch [6000401050097]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑

Area/Activity exposed to stormwater (identify needed mainteance or a description of corrective actions in relevant task comment).

970	Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
980	Transfer areas for substances in bulk: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
990	Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
1000	Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
1010	Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
1020	Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
1030	Fueling areas: controls adequate (appropriate, effective, and operating)? If "No" describe. Comments: Facility is using new fuel mats designed to absorb fuel drips for active mobile refueling		☐	☐	☑
1040	Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
1050	Machinery: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
1060	Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
1070	Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
1080	Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
1090	Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☑	☐
1100	Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
1110	Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
1120	Leaks and spills: controls adequate (appropriate, effective, and operating)? If "No" describe.		☒	☐	☐

	Comments: See CAR #2164: One of the refueling trucks (E304640) was leaking fuel from the kamvalok coupler and a nozzle				
1130	**Sector P [60004-P]** Vehicle storage/maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
	Non-Compliance				
1150	Free of incidents of observed non-compliance not already identified above? If "No" describe.		☐	☐	☑
	Additional Control Measures				
1170	Are permit requirements satisfied with existing control measure(s)? If "No" describe additional control measures needed.		☐	☐	☑

Labor Report

Completed: 11/21/2022 12:00:00 PM

Report: Jacob Knight, DEP

Signature / Name	Date	Signature / Name	Date
JKnight	11/21/2022		

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: LARRY VELASQUEZ, GROUP LEADER

Signature: Larry Vel Date: 11/28/2022

Los Alamos National Laboratory

Work Order MSGP-RI-66280
MSGP Routine Inspection
Printed 12/20/2022 - 8:04 AM

Maintenance Details

Requested: 11/28/2022 12:52:00 PM
Procedure: MSGP Routine Facility Inspection (EPC-CP-QP-2108 R0 Form 1)
Last PM: 11/21/2022
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
RG121.9
TA-60-0001 Heavy Equipment Yard

Contact:
Phone:

Tasks

#	Description	Meas.	No	N/A	Yes
Weather Information					
20	Describe the weather at time of inspection and document the temperature (F°). Comments: Sunny and 29 degrees F.		☐	☐	☑
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.		☐	☐	☑
50	If "No" has a CAR been previously initiated for this new discharge?		☐	☑	☐
60	Is the facility free of discharge of pollutants at the time of inspection? If "No" describe.		☐	☐	☑
70	Is the facility free of evidence of, or the potential for, pollutants entering the drainage system. If "No" describe.		☐	☐	☑
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 [022]** Free of Evidence of Erosion? If "No", describe.		☐	☐	☑
100	**Monitored Outfall [022]** Flow Dissipation Devices Operating Effectively? If "No", describe.		☐	☐	☑
110	**Monitored Outfall [022]** Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		☐	☐	☑
120	**Monitored Outfall [022]** Free of any unauthorized non-stormwater discharges? If "No" describe.		☐	☐	☑
130	**Substantially Identical Discharge Point [021]** Free of Evidence of Erosion? If "No", describe.		☐	☐	☑
140	**Substantially Identical Discharge Point [021]** Flow Dissipation Devices Operating Effectively? If "No", describe.		☐	☐	☑
150	**Substantially Identical Discharge Point [021]** Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		☐	☐	☑
160	**Substantially Identical Discharge Point [021]** Free of any unauthorized non-stormwater discharges? If "No" describe.		☐	☐	☑
170	**Substantially Identical Discharge Point [023]** Free of Evidence of Erosion? If "No", describe.		☐	☐	☑
180	**Substantially Identical Discharge Point [023]** Flow Dissipation Devices Operating Effectively? If "No", describe.		☐	☐	☑
190	**Substantially Identical Discharge Point [023]** Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		☐	☐	☑
200	**Substantially Identical Discharge Point [023]** Free of any unauthorized non-stormwater discharges? If "No" describe.		☐	☐	☑
210	**Substantially Identical Discharge Point [024]** Free of Evidence of Erosion? If "No", describe.		☐	☐	☑
220	**Substantially Identical Discharge Point [024]** Flow Dissipation Devices Operating Effectively? If "No", describe.		☐	☐	☑

230	**Substantially Identical Discharge Point [024]** Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		☐	☐	☑
240	**Substantially Identical Discharge Point [024]** Free of any unauthorized non-stormwater discharges? If "No" describe.		☐	☐	☑
250	**Substantially Identical Discharge Point [025]** Free of Evidence of Erosion? If "No", describe.		☐	☐	☑
260	**Substantially Identical Discharge Point [025]** Flow Dissipation Devices Operating Effectively? If "No", describe.		☐	☐	☑
270	**Substantially Identical Discharge Point [025]** Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		☐	☐	☑
280	**Substantially Identical Discharge Point [025]** Free of any unauthorized non-stormwater discharges? If "No" describe.		☐	☐	☑

Control Measures (identify needed maintenance and repairs, failed control measures that need replacment, or a description of corrective actions in relevant task comments).

300	**Asphalt Berm [6000403040027]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
310	**Asphalt Berm [6000403040028]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
320	**Asphalt Berm [6000403040029]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
330	**Asphalt Berm [6000403040047]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
340	**Gravel Bags [6000403100061]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
350	**Gravel Bags [6000403100095]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
360	**Gravel Bags [6000403100101]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
370	**Concrete/Asphalt Channel/Swale [6000404020031]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
380	**Concrete/Asphalt Channel/Swale [6000404020032]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
390	**Eco-Block [6000403110060]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
400	**Rock Channel/Swale [6000404030023]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
410	**Rock Channel/Swale [6000404030043]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
420	**Rock Channel/Swale [6000404030073]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
430	**Rip Rap [6000404060002]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
440	**Rip Rap [6000404060039]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
450	**Earthen Channel/Swale [6000404010033]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
460	**Earthen Channel/Swale [6000404010034]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
470	**Gabion Swale [6000404090042]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
480	**Rock Check Dam [6000406010010]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
490	**Rock Check Dam [6000406010011]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
500	**Rock Check Dam [6000406010012]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
510	**Rock Check Dam [6000406010013]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
520	**Rock Check Dam [6000406010014]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑

530	**Rock Check Dam [6000406010015]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
540	**Rock Check Dam [6000406010016]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
550	**Rock Check Dam [6000406010017]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
560	**Rock Check Dam [6000406010018]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
570	**Rock Check Dam [6000406010019]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
580	**Rock Check Dam [6000406010020]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
590	**Rock Check Dam [6000406010021]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
600	**Rock Check Dam [6000406010022]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
610	**Rock Check Dam [6000406010052]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
620	**Rock Check Dam [6000406010053]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
630	**Rock Check Dam [6000406010054]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
640	**Rock Check Dam [6000406010055]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
650	**Rock Check Dam [6000406010056]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
660	**Rock Check Dam [6000406010057]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
670	**Rock Check Dam [6000406010058]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
680	**Rock Check Dam [6000406010074]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
690	**Rock Check Dam [6000406010075]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
700	**Rock Check Dam [6000406010076]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
710	**Rock Check Dam [6000406010077]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
720	**Rock Check Dam [6000406010098]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
730	**Rock Check Dam [6000406010099]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
740	**Gabion [6000407010035]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
750	**Gabion [6000407010036]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
760	**Gabion [6000407010037]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
770	**Gabion [6000407010038]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
780	**Trench Drain [6000409040046]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. Comments: Associated oil/water separator had sludge removed 12/13/22		☐	☐	☑
790	**Drop inlet with filters [6000409020096]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
800	**Drop Inlet with Petro-Plug [6000409010100]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
810	**EnviroSoxx w/ MetalLoxx [6000403200115]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
820	**EnviroSoxx w/ MetalLoxx [6000403200116]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑

830	**EnviroSoxx w/ MetalLoxx [6000403200117]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
840	**EnviroSoxx w/ MetalLoxx [6000403200118]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
850	**EnviroSoxx w/ MetalLoxx [6000403200119]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
860	**EnviroSoxx w/ MetalLoxx [6000403200120]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
870	**EnviroSoxx w/ MetalLoxx [6000403200121]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
880	**EnviroSoxx w/ MetalLoxx [6000403200122]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
890	**EnviroSoxx w/ MetalLoxx [6000403200123]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
900	**EnviroSoxx w/ MetalLoxx [6000403200124]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
910	**EnviroSoxx w/ MetalLoxx [6000403200125]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
920	**EnviroSoxx w/ MetalLoxx [6000403200126]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
930	**TRM-Lined Swale [6000404080068]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
940	**TRM-Lined Swale [6000404080069]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
950	**Gravel Mulch [6000401050097]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑

Area/Activity exposed to stormwater (identify needed mainteance or a description of corrective actions in relevant task comment).

970	Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
980	Transfer areas for substances in bulk: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
990	Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
1000	Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
1010	Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
1020	Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
1030	Fueling areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
1040	Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
1050	Machinery: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
1060	Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
1070	Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
1080	Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
1090	Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☑	☐
1100	Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
1110	Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
1120	Leaks and spills: controls adequate (appropriate, effective, and operating)? If "No" describe. **Comments: See CAR #2189: There was an oil stained differential stored on the west side of TA-60-0001 by the roll up door. It was not covered. See CAR #2190: There was hydraulic oil is leaking from Toyota forklift #2 by the front tines onto asphalt.**		☒	☐	☐

1130	**Sector P [60004-P]** Vehicle storage/maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑

Non-Compliance

1150	Free of incidents of observed non-compliance not already identified above? If "No" describe.		☐	☐	☑

Additional Control Measures

1170	Are permit requirements satisfied with existing control measure(s)? If "No" describe additional control measures needed.		☐	☐	☑

Labor Report

Completed: 12/14/2022 11:15:00 AM

Report: Jacob Knight, DEP

Signature / Name	Date	Signature / Name	Date
J. Knight	12/15/2022		

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: LARRY VECASEY GROUP LEADER

Signature: [signature] Date: 1/3/2023

Los Alamos National Laboratory

Work Order MSGP-RI-66346

MSGP Routine Inspection
Printed 1/31/2023 - 9:55 AM

Maintenance Details

Requested: 1/5/2023 11:48:00 AM
Procedure: MSGP Routine Facility Inspection (EPC-CP-QP-2108 R0 Form 1)
Last PM: 12/14/2022
Project: Routine Facility Inspections January 2023 (P-MSGP-RI-5620)

Target: 1/31/2023
Priority/Type: Normal / Inspection
Department: Utilities and Infrastructure

MSGP Program
RG121.9
TA-60-0001 Heavy Equipment Yard

Contact:
Phone:

Reason: 2023 January Routine Facility Inspections

Tasks

#	Description	Meas.	No	N/A	Yes
Weather Information					
20	Describe the weather at time of inspection and document the temperature (F°). Comments: Partly sunny and 29 degrees F. Most areas of the site, including stormwater controls, are snow covered with the exception of vehicle traffic areas. Frozen conditions.		☐	☐	☑
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.		☐	☐	☑
50	If "No" has a CAR been previously initiated for this new discharge?		☐	☑	☐
60	Is the facility free of discharge of pollutants at the time of inspection? If "No" describe.		☐	☐	☑
70	Is the facility free of evidence of, or the potential for, pollutants entering the drainage system. If "No" describe.		☐	☐	☑
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 [022]** Free of Evidence of Erosion? If "No", describe.		☐	☐	☑
100	**Monitored Outfall [022]** Flow Dissipation Devices Operating Effectively? If "No", describe.		☐	☐	☑
110	**Monitored Outfall [022]** Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		☐	☐	☑
120	**Monitored Outfall [022]** Free of any unauthorized non-stormwater discharges? If "No" describe.		☐	☐	☑
130	**Substantially Identical Discharge Point [021]** Free of Evidence of Erosion? If "No", describe.		☐	☐	☑
140	**Substantially Identical Discharge Point [021]** Flow Dissipation Devices Operating Effectively? If "No", describe.		☐	☐	☑
150	**Substantially Identical Discharge Point [021]** Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		☐	☐	☑
160	**Substantially Identical Discharge Point [021]** Free of any unauthorized non-stormwater discharges? If "No" describe.		☐	☐	☑
170	**Substantially Identical Discharge Point [023]** Free of Evidence of Erosion? If "No", describe.		☐	☐	☑
180	**Substantially Identical Discharge Point [023]** Flow Dissipation Devices Operating Effectively? If "No", describe.		☐	☐	☑
190	**Substantially Identical Discharge Point [023]** Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		☐	☐	☑
200	**Substantially Identical Discharge Point [023]** Free of any unauthorized non-stormwater discharges? If "No" describe.		☐	☐	☑
210	**Substantially Identical Discharge Point [024]** Free of Evidence of Erosion? If "No", describe.		☐	☐	☑

220	**Substantially Identical Discharge Point [024]** Flow Dissipation Devices Operating Effectively? If "No", describe.		☐	☐	☑
230	**Substantially Identical Discharge Point [024]** Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		☐	☐	☑
240	**Substantially Identical Discharge Point [024]** Free of any unauthorized non-stormwater discharges? If "No" describe.		☐	☐	☑
250	**Substantially Identical Discharge Point [025]** Free of Evidence of Erosion? If "No", describe.		☐	☐	☑
260	**Substantially Identical Discharge Point [025]** Flow Dissipation Devices Operating Effectively? If "No", describe.		☐	☐	☑
270	**Substantially Identical Discharge Point [025]** Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		☐	☐	☑
280	**Substantially Identical Discharge Point [025]** Free of any unauthorized non-stormwater discharges? If "No" describe.		☐	☐	☑

Control Measures (identify needed maintenance and repairs, failed control measures that need replacment, or a description of corrective actions in relevant task comments).

300	**Asphalt Berm [6000403040027]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
310	**Asphalt Berm [6000403040028]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
320	**Asphalt Berm [6000403040029]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
330	**Asphalt Berm [6000403040047]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
340	**Gravel Bags [6000403100061]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
350	**Gravel Bags [6000403100095]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
360	**Gravel Bags [6000403100101]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
370	**Concrete/Asphalt Channel/Swale [6000404020031]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
380	**Concrete/Asphalt Channel/Swale [6000404020032]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
390	**Eco-Block [6000403110060]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
400	**Rock Channel/Swale [6000404030023]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
410	**Rock Channel/Swale [6000404030043]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
420	**Rock Channel/Swale [6000404030073]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
430	**Rip Rap [6000404060002]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
440	**Rip Rap [6000404060039]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
450	**Earthen Channel/Swale [6000404010033]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
460	**Earthen Channel/Swale [6000404010034]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
470	**Gabion Swale [6000404090042]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
480	**Rock Check Dam [6000406010010]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
490	**Rock Check Dam [6000406010011]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
500	**Rock Check Dam [6000406010012]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
510	**Rock Check Dam [6000406010013]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑

520	**Rock Check Dam [6000406010014]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
530	**Rock Check Dam [6000406010015]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
540	**Rock Check Dam [6000406010016]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
550	**Rock Check Dam [6000406010017]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
560	**Rock Check Dam [6000406010018]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
570	**Rock Check Dam [6000406010019]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
580	**Rock Check Dam [6000406010020]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
590	**Rock Check Dam [6000406010021]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
600	**Rock Check Dam [6000406010022]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
610	**Rock Check Dam [6000406010052]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
620	**Rock Check Dam [6000406010053]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
630	**Rock Check Dam [6000406010054]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
640	**Rock Check Dam [6000406010055]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
650	**Rock Check Dam [6000406010056]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
660	**Rock Check Dam [6000406010057]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
670	**Rock Check Dam [6000406010058]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
680	**Rock Check Dam [6000406010074]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
690	**Rock Check Dam [6000406010075]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
700	**Rock Check Dam [6000406010076]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
710	**Rock Check Dam [6000406010077]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
720	**Rock Check Dam [6000406010098]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
730	**Rock Check Dam [6000406010099]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
740	**Gabion [6000407010035]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
750	**Gabion [6000407010036]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
760	**Gabion [6000407010037]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
770	**Gabion [6000407010038]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
780	**Trench Drain [6000409040046]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
790	**Drop inlet with filters [6000409020096]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
800	**Drop Inlet with Petro-Plug [6000409010100]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
810	**EnviroSoxx w/ MetalLoxx [6000403200115]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑

820	**EnviroSoxx w/ MetalLoxx [6000403200116]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
830	**EnviroSoxx w/ MetalLoxx [6000403200117]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
840	**EnviroSoxx w/ MetalLoxx [6000403200118]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
850	**EnviroSoxx w/ MetalLoxx [6000403200119]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
860	**EnviroSoxx w/ MetalLoxx [6000403200120]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
870	**EnviroSoxx w/ MetalLoxx [6000403200121]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
880	**EnviroSoxx w/ MetalLoxx [6000403200122]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
890	**EnviroSoxx w/ MetalLoxx [6000403200123]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
900	**EnviroSoxx w/ MetalLoxx [6000403200124]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
910	**EnviroSoxx w/ MetalLoxx [6000403200125]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
920	**EnviroSoxx w/ MetalLoxx [6000403200126]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
930	**TRM-Lined Swale [6000404080068]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
940	**TRM-Lined Swale [6000404080069]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
950	**Gravel Mulch [6000401050097]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
Area/Activity exposed to stormwater (identify needed mainteance or a description of corrective actions in relevant task comment).					
970	Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
980	Transfer areas for substances in bulk: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
990	Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
1000	Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
1010	Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
1020	Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
1030	Fueling areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
1040	Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
1050	Machinery: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
1060	Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If "No" describe. **Comments: See CAR 2207: In the lower east yard the metal recycle bin had some small pieces of metal inside and the bin was uncovered with some evidence of precipitation.**		☒	☐	☐
1070	Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
1080	Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
1090	Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☑	☐
1100	Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
1110	Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑

1120	Leaks and spills: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
1130	**Sector P [60004-P]** Vehicle storage/maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
	Non-Compliance				
1150	Free of incidents of observed non-compliance not already identified above? If "No" describe.		☐	☐	☑
	Additional Control Measures				
1170	Are permit requirements satisfied with existing control measure(s)? If "No" describe additional control measures needed.		☐	☐	☑

Labor Report

Completed: 1/25/2023 12:30:00 PM

Report: Jacob Knight, DEP

Signature / Name	Date	Signature / Name	Date
J Knight	1/25/2023		

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: LARRY VELASQUEZ GROUP LEADER

Signature: [signature] Date: 2/10/2023

Los Alamos National Laboratory

Work Order MSGP-RI-66413

MSGP Routine Inspection
Printed 2/27/2023 - 11:50 AM

Maintenance Details

Requested: 1/30/2023 2:37:00 PM
Procedure: MSGP Routine Facility Inspection (EPC-CP-QP-2108 R0 Form 1)
Last PM: 1/25/2023
Project: Routine Facility Inspections February 2023 (P-MSGP-RI-5626)

Target: 2/28/2023
Priority/Type: Normal / Inspection
Department: Utilities and Infrastructure

MSGP Program
RG121.9
TA-60-0001 Heavy Equipment Yard

Contact:
Phone:

Reason: 2023 February Routine Facility Inspections

Tasks

#	Description	Meas.	No	N/A	Yes
	Weather Information				
20	Describe the weather at time of inspection and document the temperature (F°). Comments: 28 degrees F with snow flurries. Breezy. New minor snow accumulation on site and some snow melt water discharges at Outfall 024. Other outfalls and stormwater controls are either under a small snow layer and/or frozen with ponding water.		☐	☐	☑
	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.		☐	☐	☑
50	If "No" has a CAR been previously initiated for this new discharge?		☐	☑	☐
60	Is the facility free of discharge of pollutants at the time of inspection? If "No" describe.		☐	☐	☑
70	Is the facility free of evidence of, or the potential for, pollutants entering the drainage system. If "No" describe. Comments: Refer to CAR #2208 - There was a fuel spill discovered on 2/21/23. At the same time there was snow melt water with sheen approaching outfall 024. Roads and Grounds, EPC, and HAZMAT responded and placed oil absorbing pads and booms and other controls. On 2/22/23 EPC and Roads and Grounds applied more controls and it was also discovered that there was a minor amount of sheen in snow melt water in Outfall 024. HAZMAT an EPC Water Quality did another evaluation on 2/23/23 where HAZMAT replaced some controls and added new ones. Also, Water Quality determined there was no impact to drainage areas below Outfall 024.		☒	☐	☐
	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 [022]** Free of Evidence of Erosion? If "No", describe.		☐	☐	☑
100	**Monitored Outfall [022]** Flow Dissipation Devices Operating Effectively? If "No", describe.		☐	☐	☑
110	**Monitored Outfall [022]** Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		☐	☐	☑
120	**Monitored Outfall [022]** Free of any unauthorized non-stormwater discharges? If "No" describe.		☐	☐	☑
130	**Substantially Identical Discharge Point [021]** Free of Evidence of Erosion? If "No", describe.		☐	☐	☑
140	**Substantially Identical Discharge Point [021]** Flow Dissipation Devices Operating Effectively? If "No", describe.		☐	☐	☑
150	**Substantially Identical Discharge Point [021]** Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		☐	☐	☑
160	**Substantially Identical Discharge Point [021]** Free of any unauthorized non-stormwater discharges? If "No" describe.		☐	☐	☑
170	**Substantially Identical Discharge Point [023]** Free of Evidence of Erosion? If "No", describe.		☐	☐	☑

180	**Substantially Identical Discharge Point [023]** Flow Dissipation Devices Operating Effectively? If "No", describe.		☐	☐	☑
190	**Substantially Identical Discharge Point [023]** Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		☐	☐	☑
200	**Substantially Identical Discharge Point [023]** Free of any unauthorized non-stormwater discharges? If "No" describe.		☐	☐	☑
210	**Substantially Identical Discharge Point [024]** Free of Evidence of Erosion? If "No", describe.		☐	☐	☑
220	**Substantially Identical Discharge Point [024]** Flow Dissipation Devices Operating Effectively? If "No", describe.		☐	☐	☑
230	**Substantially Identical Discharge Point [024]** Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. **Comments: See comment in Task #70 and also refer to CAR #2208 for unauthorized release on 2/21/23.**		☒	☐	☐
240	**Substantially Identical Discharge Point [024]** Free of any unauthorized non-stormwater discharges? If "No" describe.		☐	☐	☑
250	**Substantially Identical Discharge Point [025]** Free of Evidence of Erosion? If "No", describe.		☐	☐	☑
260	**Substantially Identical Discharge Point [025]** Flow Dissipation Devices Operating Effectively? If "No", describe.		☐	☐	☑
270	**Substantially Identical Discharge Point [025]** Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		☐	☐	☑
280	**Substantially Identical Discharge Point [025]** Free of any unauthorized non-stormwater discharges? If "No" describe.		☐	☐	☑

Control Measures (identify needed maintenance and repairs, failed control measures that need replacment, or a description of corrective actions in relevant task comments).

300	**Asphalt Berm [6000403040027]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
310	**Asphalt Berm [6000403040028]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
320	**Asphalt Berm [6000403040029]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
330	**Asphalt Berm [6000403040047]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
340	**Gravel Bags [6000403100061]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
350	**Gravel Bags [6000403100095]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
360	**Gravel Bags [6000403100101]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
370	**Concrete/Asphalt Channel/Swale [6000404020031]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
380	**Concrete/Asphalt Channel/Swale [6000404020032]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
390	**Eco-Block [6000403110060]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
400	**Rock Channel/Swale [6000404030023]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
410	**Rock Channel/Swale [6000404030043]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
420	**Rock Channel/Swale [6000404030073]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
430	**Rip Rap [6000404060002]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
440	**Rip Rap [6000404060039]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
450	**Earthen Channel/Swale [6000404010033]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
460	**Earthen Channel/Swale [6000404010034]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑

470	**Gabion Swale [6000404090042]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
480	**Rock Check Dam [6000406010010]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
490	**Rock Check Dam [6000406010011]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
500	**Rock Check Dam [6000406010012]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
510	**Rock Check Dam [6000406010013]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
520	**Rock Check Dam [6000406010014]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
530	**Rock Check Dam [6000406010015]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
540	**Rock Check Dam [6000406010016]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
550	**Rock Check Dam [6000406010017]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
560	**Rock Check Dam [6000406010018]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
570	**Rock Check Dam [6000406010019]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
580	**Rock Check Dam [6000406010020]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
590	**Rock Check Dam [6000406010021]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
600	**Rock Check Dam [6000406010022]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
610	**Rock Check Dam [6000406010052]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
620	**Rock Check Dam [6000406010053]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
630	**Rock Check Dam [6000406010054]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
640	**Rock Check Dam [6000406010055]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
650	**Rock Check Dam [6000406010056]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
660	**Rock Check Dam [6000406010057]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
670	**Rock Check Dam [6000406010058]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
680	**Rock Check Dam [6000406010074]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
690	**Rock Check Dam [6000406010075]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
700	**Rock Check Dam [6000406010076]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
710	**Rock Check Dam [6000406010077]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
720	**Rock Check Dam [6000406010098]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
730	**Rock Check Dam [6000406010099]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
740	**Gabion [6000407010035]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
750	**Gabion [6000407010036]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
760	**Gabion [6000407010037]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑

770	**Gabion [6000407010038]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
780	**Trench Drain [6000409040046]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
790	**Drop inlet with filters [6000409020096]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
800	**Drop Inlet with Petro-Plug [6000409010100]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
810	**EnviroSoxx w/ MetalLoxx [6000403200115]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
820	**EnviroSoxx w/ MetalLoxx [6000403200116]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
830	**EnviroSoxx w/ MetalLoxx [6000403200117]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
840	**EnviroSoxx w/ MetalLoxx [6000403200118]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
850	**EnviroSoxx w/ MetalLoxx [6000403200119]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
860	**EnviroSoxx w/ MetalLoxx [6000403200120]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
870	**EnviroSoxx w/ MetalLoxx [6000403200121]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
880	**EnviroSoxx w/ MetalLoxx [6000403200122]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
890	**EnviroSoxx w/ MetalLoxx [6000403200123]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
900	**EnviroSoxx w/ MetalLoxx [6000403200124]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
910	**EnviroSoxx w/ MetalLoxx [6000403200125]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
920	**EnviroSoxx w/ MetalLoxx [6000403200126]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
930	**TRM-Lined Swale [6000404080068]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
940	**TRM-Lined Swale [6000404080069]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
950	**Gravel Mulch [6000401050097]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
Area/Activity exposed to stormwater (identify needed mainteance or a description of corrective actions in relevant task comment).					
970	Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
980	Transfer areas for substances in bulk: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
990	Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
1000	Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
1010	Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
1020	Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
1030	Fueling areas: controls adequate (appropriate, effective, and operating)? If "No" describe. Comments: Fuel mats for containing any fuel drips are being used.		☐	☐	☑
1040	Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
1050	Machinery: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
1060	Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If "No" describe. Comments: See CAR #2209: The metal recycle bin, cardboard bin, and tire bin all had open covers with contents exposed to precipitation (was very windy).		☒	☐	☐

1070	Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If "No" describe.	☐	☐	☑
1080	Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If "No" describe.	☐	☐	☑
1090	Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If "No" describe.	☐	☑	☐
1100	Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If "No" describe.	☐	☐	☑
1110	Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If "No" describe.	☐	☐	☑
1120	Leaks and spills: controls adequate (appropriate, effective, and operating)? If "No" describe. Comments: Controls for recent fuel spill are functioning well and are reevaluated daily.	☐	☐	☑
1130	**Sector P [60004-P]** Vehicle storage/maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	☐	☐	☑
	Non-Compliance			
1150	Free of incidents of observed non-compliance not already identified above? If "No" describe.	☐	☐	☑
	Additional Control Measures			
1170	Are permit requirements satisfied with existing control measure(s)? If "No" describe additional control measures needed.	☐	☐	☑

Labor Report

Completed: 2/23/2023 12:00:00 PM

Report: Jacob Knight, DEP

Signature / Name	Date	Signature / Name	Date
J Knight	2/23/2023		

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: LARRY VELASQUEZ, GROUP LEADER

Signature: Larry Kyd Date: 2/28/2023

Los Alamos National Laboratory

Work Order MSGP-RI-66474

MSGP Routine Inspection
Printed 3/29/2023 - 12:55 PM

Maintenance Details

Requested: 2/27/2023 1:09:00 PM
Procedure: MSGP Routine Facility Inspection (EPC-CP-QP-2108 R0 Form 1)
Last PM: 2/23/2023
Project: Routine Facility Inspections March 2023 (P-MSGP-RI-5632)

Target: 3/31/2023
Priority/Type: Normal / Inspection
Department: Utilities and Infrastructure

MSGP Program
RG121.9
TA-60-0001 Heavy Equipment Yard

Contact:
Phone:

Reason: 2023 March Routine Facility Inspections

Tasks

#	Description	Meas.	No	N/A	Yes
Weather Information					
20	Describe the weather at time of inspection and document the temperature (F°). Comments: 34 degrees and sunny		☐	☐	☑
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.		☐	☐	☑
50	If "No" has a CAR been previously initiated for this new discharge?		☐	☑	☐
60	Is the facility free of discharge of pollutants at the time of inspection? If "No" describe.		☐	☐	☑
70	Is the facility free of evidence of, or the potential for, pollutants entering the drainage system. If "No" describe.		☐	☐	☑
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 [022]** Free of Evidence of Erosion? If "No", describe.		☐	☐	☑
100	**Monitored Outfall [022]** Flow Dissipation Devices Operating Effectively? If "No", describe.		☐	☐	☑
110	**Monitored Outfall [022]** Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		☐	☐	☑
120	**Monitored Outfall [022]** Free of any unauthorized non-stormwater discharges? If "No" describe.		☐	☐	☑
130	**Substantially Identical Discharge Point [021]** Free of Evidence of Erosion? If "No", describe.		☐	☐	☑
140	**Substantially Identical Discharge Point [021]** Flow Dissipation Devices Operating Effectively? If "No", describe.		☐	☐	☑
150	**Substantially Identical Discharge Point [021]** Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		☐	☐	☑
160	**Substantially Identical Discharge Point [021]** Free of any unauthorized non-stormwater discharges? If "No" describe.		☐	☐	☑
170	**Substantially Identical Discharge Point [023]** Free of Evidence of Erosion? If "No", describe.		☐	☐	☑
180	**Substantially Identical Discharge Point [023]** Flow Dissipation Devices Operating Effectively? If "No", describe.		☐	☐	☑
190	**Substantially Identical Discharge Point [023]** Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		☐	☐	☑
200	**Substantially Identical Discharge Point [023]** Free of any unauthorized non-stormwater discharges? If "No" describe.		☐	☐	☑
210	**Substantially Identical Discharge Point [024]** Free of Evidence of Erosion? If "No", describe.		☐	☐	☑
220	**Substantially Identical Discharge Point [024]** Flow Dissipation Devices Operating Effectively? If "No", describe.		☐	☐	☑

230	**Substantially Identical Discharge Point [024]** Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.	☐	☐	☑
240	**Substantially Identical Discharge Point [024]** Free of any unauthorized non-stormwater discharges? If "No" describe.	☐	☐	☑
250	**Substantially Identical Discharge Point [025]** Free of Evidence of Erosion? If "No", describe.	☐	☐	☑
260	**Substantially Identical Discharge Point [025]** Flow Dissipation Devices Operating Effectively? If "No", describe.	☐	☐	☑
270	**Substantially Identical Discharge Point [025]** Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.	☐	☐	☑
280	**Substantially Identical Discharge Point [025]** Free of any unauthorized non-stormwater discharges? If "No" describe.	☐	☐	☑

Control Measures (identify needed maintenance and repairs, failed control measures that need replacment, or a description of corrective actions in relevant task comments).

300	**Asphalt Berm [6000403040027]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
310	**Asphalt Berm [6000403040028]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
320	**Asphalt Berm [6000403040029]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
330	**Asphalt Berm [6000403040047]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
340	**Gravel Bags [6000403100061]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
350	**Gravel Bags [6000403100095]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
360	**Gravel Bags [6000403100101]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
370	**Concrete/Asphalt Channel/Swale [6000404020031]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
380	**Concrete/Asphalt Channel/Swale [6000404020032]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
390	**Eco-Block [6000403110060]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
400	**Rock Channel/Swale [6000404030023]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
410	**Rock Channel/Swale [6000404030043]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
420	**Rock Channel/Swale [6000404030073]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
430	**Rip Rap [6000404060002]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
440	**Rip Rap [6000404060039]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
450	**Earthen Channel/Swale [6000404010033]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
460	**Earthen Channel/Swale [6000404010034]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
470	**Gabion Swale [6000404090042]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
480	**Rock Check Dam [6000406010010]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
490	**Rock Check Dam [6000406010011]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
500	**Rock Check Dam [6000406010012]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
510	**Rock Check Dam [6000406010013]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
520	**Rock Check Dam [6000406010014]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑

530	**Rock Check Dam [6000406010015]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
540	**Rock Check Dam [6000406010016]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
550	**Rock Check Dam [6000406010017]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
560	**Rock Check Dam [6000406010018]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
570	**Rock Check Dam [6000406010019]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
580	**Rock Check Dam [6000406010020]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
590	**Rock Check Dam [6000406010021]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
600	**Rock Check Dam [6000406010022]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
610	**Rock Check Dam [6000406010052]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
620	**Rock Check Dam [6000406010053]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
630	**Rock Check Dam [6000406010054]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. **Comments: In need of maintenance/sediment removal - see CAR 2218.**	☒	☐	☐
640	**Rock Check Dam [6000406010055]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
650	**Rock Check Dam [6000406010056]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
660	**Rock Check Dam [6000406010057]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
670	**Rock Check Dam [6000406010058]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. **Comments: In need of maintenance/sediment removal - see CAR 2218.**	☒	☐	☐
680	**Rock Check Dam [6000406010074]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
690	**Rock Check Dam [6000406010075]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
700	**Rock Check Dam [6000406010076]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
710	**Rock Check Dam [6000406010077]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
720	**Rock Check Dam [6000406010098]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
730	**Rock Check Dam [6000406010099]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
740	**Gabion [6000407010035]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
750	**Gabion [6000407010036]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
760	**Gabion [6000407010037]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
770	**Gabion [6000407010038]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
780	**Trench Drain [6000409040046]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. **Comments: The trench drain was recently removed because the concrete bay for washing in this area is in need of concrete replacement. The concrete is removed and the area is under construction for replacement.**	☒	☐	☐
790	**Drop inlet with filters [6000409020096]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
800	**Drop Inlet with Petro-Plug [6000409010100]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement. **Comments: In need of maintenance/sediment removal - see CAR #2219.**	☒	☐	☐

810	**EnviroSoxx w/ MetalLoxx [6000403200115]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
820	**EnviroSoxx w/ MetalLoxx [6000403200116]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
830	**EnviroSoxx w/ MetalLoxx [6000403200117]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
840	**EnviroSoxx w/ MetalLoxx [6000403200118]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
850	**EnviroSoxx w/ MetalLoxx [6000403200119]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
860	**EnviroSoxx w/ MetalLoxx [6000403200120]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
870	**EnviroSoxx w/ MetalLoxx [6000403200121]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
880	**EnviroSoxx w/ MetalLoxx [6000403200122]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
890	**EnviroSoxx w/ MetalLoxx [6000403200123]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
900	**EnviroSoxx w/ MetalLoxx [6000403200124]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
910	**EnviroSoxx w/ MetalLoxx [6000403200125]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
920	**EnviroSoxx w/ MetalLoxx [6000403200126]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
930	**TRM-Lined Swale [6000404080068]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
940	**TRM-Lined Swale [6000404080069]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
950	**Gravel Mulch [6000401050097]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑

Area/Activity exposed to stormwater (identify needed mainteance or a description of corrective actions in relevant task comment).

970	Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	☐	☐	☑
980	Transfer areas for substances in bulk: controls adequate (appropriate, effective, and operating)? If "No" describe.	☐	☐	☑
990	Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe.	☐	☐	☑
1000	Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe.	☐	☐	☑
1010	Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	☐	☐	☑
1020	Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	☐	☐	☑
1030	Fueling areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	☐	☐	☑
1040	Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If "No" describe. Comments: Area is not in use and is under construction for replacement of concrete.	☐	☐	☑
1050	Machinery: controls adequate (appropriate, effective, and operating)? If "No" describe.	☐	☐	☑
1060	Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	☐	☐	☑
1070	Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If "No" describe.	☐	☐	☑
1080	Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If "No" describe.	☐	☐	☑
1090	Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If "No" describe.	☐	☑	☐
1100	Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If "No" describe.	☐	☐	☑

1110	Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If "No" describe. **Comments: Exposed metal at the edge of a metal storage canopy was recently removed in response to a an Aluminum benchmark exceedance. Housekeeping looked good at the time of this inspection.**		☐	☐	☑
1120	Leaks and spills: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
1130	**Sector P [60004-P]** Vehicle storage/maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
	Non-Compliance				
1150	Free of incidents of observed non-compliance not already identified above? If "No" describe.		☐	☐	☑
	Additional Control Measures				
1170	Are permit requirements satisfied with existing control measure(s)? If "No" describe additional control measures needed. **Comments: Site is MSGP AIM Level 2 status now for an average of four Aluminum samples averaging 1157 ug/L and the benchmark limit is 1100 ug/L. See CAR # 2212. Corrective action response is ongoing at this time for installation of an additional stormwater feature to retain and infiltrate stormwater and control more sediments.**		☒	☐	☐

Labor Report

Completed: 3/27/2023 3:00:00 PM

Report: Jacob Knight, DEP

Signature / Name	Date	Signature / Name	Date
J Knight	3/29/2023		

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: LARRY VELASQUEZ GROUP LEADER

Signature: [signature] Date: 4/4/2023

Los Alamos National Laboratory

Work Order MSGP-RI-66546

MSGP Routine Inspection
Printed 4/27/2023 - 4:28 PM

Maintenance Details

Requested: 4/3/2023 10:42:00 AM
Procedure: MSGP Routine Facility Inspection (EPC-CP-QP-2108 R0 Form 1)
Last PM: 3/27/2023
Project: Routine Facility Inspections April 2023 (P-MSGP-RI-5639)

Target: 4/30/2023
Priority/Type: Normal / Inspection
Department: Utilities and Infrastructure

MSGP Program
RG121.9
TA-60-0001 Heavy Equipment Yard

Contact:
Phone:

Reason: 2023 April Routine Facility Inspections

Tasks

#	Description	Meas.	No	N/A	Yes
	Weather Information				
20	Describe the weather at time of inspection and document the temperature (F°). Comments: Mostly cloudy and 59 degrees F. Chance of scattered showers 30%.		☐	☐	☑
	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.		☐	☐	☑
50	If "No" has a CAR been previously initiated for this new discharge?		☐	☑	☐
60	Is the facility free of discharge of pollutants at the time of inspection? If "No" describe.		☐	☐	☑
70	Is the facility free of evidence of, or the potential for, pollutants entering the drainage system. If "No" describe.		☐	☐	☑
	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 [022]** Free of Evidence of Erosion? If "No", describe.		☐	☐	☑
100	**Monitored Outfall [022]** Flow Dissipation Devices Operating Effectively? If "No", describe.		☐	☐	☑
110	**Monitored Outfall [022]** Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		☐	☐	☑
120	**Monitored Outfall [022]** Free of any unauthorized non-stormwater discharges? If "No" describe.		☐	☐	☑
130	**Substantially Identical Discharge Point [021]** Free of Evidence of Erosion? If "No", describe.		☐	☐	☑
140	**Substantially Identical Discharge Point [021]** Flow Dissipation Devices Operating Effectively? If "No", describe.		☐	☐	☑
150	**Substantially Identical Discharge Point [021]** Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		☐	☐	☑
160	**Substantially Identical Discharge Point [021]** Free of any unauthorized non-stormwater discharges? If "No" describe.		☐	☐	☑
170	**Substantially Identical Discharge Point [023]** Free of Evidence of Erosion? If "No", describe.		☐	☐	☑
180	**Substantially Identical Discharge Point [023]** Flow Dissipation Devices Operating Effectively? If "No", describe.		☐	☐	☑
190	**Substantially Identical Discharge Point [023]** Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		☐	☐	☑
200	**Substantially Identical Discharge Point [023]** Free of any unauthorized non-stormwater discharges? If "No" describe.		☐	☐	☑
210	**Substantially Identical Discharge Point [024]** Free of Evidence of Erosion? If "No", describe.		☐	☐	☑
220	**Substantially Identical Discharge Point [024]** Flow Dissipation Devices Operating Effectively? If "No", describe.		☐	☐	☑
230	**Substantially Identical Discharge Point [024]** Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		☐	☐	☑

240	**Substantially Identical Discharge Point [024]** Free of any unauthorized non-stormwater discharges? If "No" describe.		☐	☐	☑
250	**Substantially Identical Discharge Point [025]** Free of Evidence of Erosion? If "No", describe.		☐	☐	☑
260	**Substantially Identical Discharge Point [025]** Flow Dissipation Devices Operating Effectively? If "No", describe.		☐	☐	☑
270	**Substantially Identical Discharge Point [025]** Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		☐	☐	☑
280	**Substantially Identical Discharge Point [025]** Free of any unauthorized non-stormwater discharges? If "No" describe.		☐	☐	☑

Control Measures (identify needed maintenance and repairs, failed control measures that need replacment, or a description of corrective actions in relevant task comments).

300	**Asphalt Berm [6000403040027]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
310	**Asphalt Berm [6000403040028]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
320	**Asphalt Berm [6000403040029]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
330	**Asphalt Berm [6000403040047]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
340	**Gravel Bags [6000403100061]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
350	**Gravel Bags [6000403100095]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
360	**Gravel Bags [6000403100101]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
370	**Concrete/Asphalt Channel/Swale [6000404020031]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
380	**Concrete/Asphalt Channel/Swale [6000404020032]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
390	**Eco-Block [6000403110060]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
400	**Rock Channel/Swale [6000404030023]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
410	**Rock Channel/Swale [6000404030043]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
420	**Rock Channel/Swale [6000404030073]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
430	**Rip Rap [6000404060002]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
440	**Rip Rap [6000404060039]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
450	**Earthen Channel/Swale [6000404010033]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
460	**Earthen Channel/Swale [6000404010034]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
470	**Gabion Swale [6000404090042]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
480	**Rock Check Dam [6000406010010]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
490	**Rock Check Dam [6000406010011]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
500	**Rock Check Dam [6000406010012]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
510	**Rock Check Dam [6000406010013]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
520	**Rock Check Dam [6000406010014]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
530	**Rock Check Dam [6000406010015]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑

540	**Rock Check Dam [6000406010016]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
550	**Rock Check Dam [6000406010017]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
560	**Rock Check Dam [6000406010018]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
570	**Rock Check Dam [6000406010019]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
580	**Rock Check Dam [6000406010020]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
590	**Rock Check Dam [6000406010021]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
600	**Rock Check Dam [6000406010022]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
610	**Rock Check Dam [6000406010052]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
620	**Rock Check Dam [6000406010053]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
630	**Rock Check Dam [6000406010054]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
640	**Rock Check Dam [6000406010055]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
650	**Rock Check Dam [6000406010056]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
660	**Rock Check Dam [6000406010057]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
670	**Rock Check Dam [6000406010058]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
680	**Rock Check Dam [6000406010074]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
690	**Rock Check Dam [6000406010075]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
700	**Rock Check Dam [6000406010076]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
710	**Rock Check Dam [6000406010077]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
720	**Rock Check Dam [6000406010098]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
730	**Rock Check Dam [6000406010099]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
740	**Gabion [6000407010035]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
750	**Gabion [6000407010036]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
760	**Gabion [6000407010037]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
770	**Gabion [6000407010038]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
780	**Drop inlet with filters [6000409020096]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
790	**Drop Inlet with Petro-Plug [6000409010100]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
800	**EnviroSoxx w/ MetalLoxx [6000403200115]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
810	**EnviroSoxx w/ MetalLoxx [6000403200116]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
820	**EnviroSoxx w/ MetalLoxx [6000403200117]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
830	**EnviroSoxx w/ MetalLoxx [6000403200118]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
840	**EnviroSoxx w/ MetalLoxx [6000403200119]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑

850	**EnviroSoxx w/ MetalLoxx [6000403200120]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
860	**EnviroSoxx w/ MetalLoxx [6000403200121]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
870	**EnviroSoxx w/ MetalLoxx [6000403200122]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
880	**EnviroSoxx w/ MetalLoxx [6000403200123]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
890	**EnviroSoxx w/ MetalLoxx [6000403200124]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
900	**EnviroSoxx w/ MetalLoxx [6000403200125]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
910	**EnviroSoxx w/ MetalLoxx [6000403200126]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
920	**Gravel Mulch [6000401050097]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑

Area/Activity exposed to stormwater (identify needed mainteance or a description of corrective actions in relevant task comment).

940	Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
950	Transfer areas for substances in bulk: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
960	Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
970	Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
980	Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
990	Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
1000	Fueling areas: controls adequate (appropriate, effective, and operating)? If "No" describe. **Comments: See CAR #2227: During mobile refueling approximately 1/2 cup of fuel spilled onto the asphalt. There were fuel mats adjacent to the fueling location that absorb fuel in the event of drips and overflows but they weren't placed under the nozzle during active fueling. The spill was absorbed and microblaze was applied.**		☒	☐	☐
1010	Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If "No" describe. **Comments: Area is not in use until new concrete is placed. Improvements are being made.**		☐	☑	☐
1020	Machinery: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
1030	Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
1040	Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
1050	Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
1060	Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☑	☐
1070	Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
1080	Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
1090	Leaks and spills: controls adequate (appropriate, effective, and operating)? If "No" describe. **Comments: See CAR #2228: The fueling truck (E29904) had an active leak that was apparently leaking transmission fluid. Some fluid stained the asphalt under the truck. The spill was cleaned up and drip pan used. The truck will go in for repairs.**		☒	☐	☐
1100	**Sector P [60004-P]** Vehicle storage/maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑

Non-Compliance

1120	Free of incidents of observed non-compliance not already identified above? If "No" describe.		☐	☐	☑

Additional Control Measures

1140	Are permit requirements satisfied with existing control measure(s)? If "No" describe additional control measures needed. Comments: CA for AIM level 2 aluminum exceedance was closed out. See CAR #2212. Monitoring will resume.		☐	☐	☑

Labor Report

Completed: 4/24/2023 2:30:00 PM

Report: Jacob Knight, DEP

Signature / Name	Date	Signature / Name	Date
J. Knight	4/25/2023		

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: GROUP LEADER

Signature: [signature] Date: 5/4/2023

Los Alamos National Laboratory

Work Order MSGP-RI-66646

MSGP Routine Inspection
Printed 5/22/2023 - 4:31 PM

Maintenance Details

Requested: 5/16/2023 4:12:00 PM
Procedure: MSGP Routine Facility Inspection (MSGP Routine Facility Ins)
Last PM: 4/24/2023
Project: Routine Facility Inspections May 2023 (P-MSGP-RI-5647)

Target: 5/31/2023
Priority/Type: / Inspection
Department: Utilities and Infrastructure

MSGP Program
RG121.9
TA-60-0001 Heavy Equipment Yard

Contact:
Phone:

Reason: 2023 May Routine Facility Inspections

Tasks

#	Description	Meas.	No	N/A	Yes
	Weather Information				
20	Describe the weather at time of inspection and document the temperature (F°). Comments: Raining and 52 degrees F.		☐	☐	☑
	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.		☐	☐	☑
50	If "No" has a CAR been previously initiated for this new discharge?		☐	☑	☐
60	Is the facility free of discharge of pollutants at the time of inspection? If "No" describe.		☐	☐	☑
70	Is the facility free of evidence of, or the potential for, pollutants entering the drainage system. If "No" describe. Comments: Stormwater discharges were observed at SIDPs 021, 023 and 024		☐	☐	☑
	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 [022]** Free of Evidence of Erosion? If "No", describe.		☐	☐	☑
100	**Monitored Outfall [022]** Flow Dissipation Devices Operating Effectively? If "No", describe. Comments: Raining at the time of inspection. The small detention pond was holding water and there was no evidence of stormwater discharges yet.		☐	☐	☑
110	**Monitored Outfall [022]** Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		☐	☐	☑
120	**Monitored Outfall [022]** Free of any unauthorized non-stormwater discharges? If "No" describe.		☐	☐	☑
130	**Substantially Identical Discharge Point [021]** Free of Evidence of Erosion? If "No", describe.		☐	☐	☑
140	**Substantially Identical Discharge Point [021]** Flow Dissipation Devices Operating Effectively? If "No", describe.		☐	☐	☑
150	**Substantially Identical Discharge Point [021]** Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		☐	☐	☑
160	**Substantially Identical Discharge Point [021]** Free of any unauthorized non-stormwater discharges? If "No" describe.		☐	☐	☑
170	**Substantially Identical Discharge Point [023]** Free of Evidence of Erosion? If "No", describe.		☐	☐	☑
180	**Substantially Identical Discharge Point [023]** Flow Dissipation Devices Operating Effectively? If "No", describe.		☐	☐	☑
190	**Substantially Identical Discharge Point [023]** Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		☐	☐	☑
200	**Substantially Identical Discharge Point [023]** Free of any unauthorized non-stormwater discharges? If "No" describe.		☐	☐	☑
210	**Substantially Identical Discharge Point [024]** Free of Evidence of Erosion? If "No", describe.		☐	☐	☑

220	**Substantially Identical Discharge Point [024]** Flow Dissipation Devices Operating Effectively? If "No", describe.		☐	☐	☑
230	**Substantially Identical Discharge Point [024]** Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		☐	☐	☑
240	**Substantially Identical Discharge Point [024]** Free of any unauthorized non-stormwater discharges? If "No" describe.		☐	☐	☑
250	**Substantially Identical Discharge Point [025]** Free of Evidence of Erosion? If "No", describe.		☐	☐	☑
260	**Substantially Identical Discharge Point [025]** Flow Dissipation Devices Operating Effectively? If "No", describe.		☐	☐	☑
270	**Substantially Identical Discharge Point [025]** Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		☐	☐	☑
280	**Substantially Identical Discharge Point [025]** Free of any unauthorized non-stormwater discharges? If "No" describe.		☐	☐	☑

Control Measures (identify needed maintenance and repairs, failed control measures that need replacment, or a description of corrective actions in relevant task comments).

300	**Asphalt Berm [6000403040027]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
310	**Asphalt Berm [6000403040028]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
320	**Asphalt Berm [6000403040029]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
330	**Asphalt Berm [6000403040047]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
340	**Gravel Bags [6000403100061]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
350	**Gravel Bags [6000403100095]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
360	**Gravel Bags [6000403100101]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
370	**Gravel Bags [6000403100146]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
380	**Concrete/Asphalt Channel/Swale [6000404020031]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
390	**Concrete/Asphalt Channel/Swale [6000404020032]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
400	**Eco-Block [6000403110060]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
410	**Rock Channel/Swale [6000404030023]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
420	**Rock Channel/Swale [6000404030043]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
430	**Rock Channel/Swale [6000404030073]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
440	**Riprap [6000404060002]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
450	**Riprap [6000404060039]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
460	**Straw Wattle [6000403060147]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
470	**Earthen Channel/Swale [6000404010033]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
480	**Earthen Channel/Swale [6000404010034]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
490	**Gabion Swale [6000404090042]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
500	**Rock Check Dam [6000406010010]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
510	**Rock Check Dam [6000406010011]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑

520	**Rock Check Dam [6000406010012]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
530	**Rock Check Dam [6000406010013]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
540	**Rock Check Dam [6000406010014]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
550	**Rock Check Dam [6000406010015]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
560	**Rock Check Dam [6000406010016]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
570	**Rock Check Dam [6000406010017]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
580	**Rock Check Dam [6000406010018]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
590	**Rock Check Dam [6000406010019]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
600	**Rock Check Dam [6000406010020]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
610	**Rock Check Dam [6000406010021]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
620	**Rock Check Dam [6000406010022]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
630	**Rock Check Dam [6000406010052]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
640	**Rock Check Dam [6000406010053]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
650	**Rock Check Dam [6000406010054]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
660	**Rock Check Dam [6000406010055]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
670	**Rock Check Dam [6000406010056]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
680	**Rock Check Dam [6000406010057]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
690	**Rock Check Dam [6000406010058]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
700	**Rock Check Dam [6000406010074]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
710	**Rock Check Dam [6000406010075]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
720	**Rock Check Dam [6000406010076]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
730	**Rock Check Dam [6000406010077]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
740	**Rock Check Dam [6000406010098]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
750	**Rock Check Dam [6000406010099]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
760	**Gabion [6000407010035]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
770	**Gabion [6000407010036]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
780	**Gabion [6000407010037]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
790	**Gabion [6000407010038]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
800	**Drop inlet with filters [6000409020096]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
810	**Drop Inlet with Petro-Plug [6000409010100]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑

820	**TRM-Lined Swale [6000404080142]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
830	**TRM-Lined Swale [6000404080143]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
840	**TRM-Lined Swale [6000404080144]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
850	**Gravel Mulch [6000401050097]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
860	**Heavy Metal Filter Sock [6000403210127]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
870	**Heavy Metal Filter Sock [6000403210128]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
880	**Heavy Metal Filter Sock [6000403210129]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
890	**Heavy Metal Filter Sock [6000403210130]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
900	**Heavy Metal Filter Sock [6000403210131]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
910	**Heavy Metal Filter Sock [6000403210132]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
920	**Heavy Metal Filter Sock [6000403210133]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
930	**Heavy Metal Filter Sock [6000403210134]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
940	**Heavy Metal Filter Sock [6000403210135]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
950	**Heavy Metal Filter Sock [6000403210136]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
960	**Heavy Metal Filter Sock [6000403210137]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
970	**Heavy Metal Filter Sock [6000403210138]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
980	**Heavy Metal Filter Sock [6000403210139]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
990	**Heavy Metal Filter Sock [6000403210140]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
1000	**Heavy Metal Filter Sock [6000403210141]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
1010	**Heavy Metal Filter Sock [6000403210148]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
1020	**Heavy Metal Filter Sock [6000403210149]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑

Area/Activity exposed to stormwater (identify needed mainteance or a description of corrective actions in relevant task comment).

1040	Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
1050	Transfer areas for substances in bulk: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
1060	Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
1070	Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
1080	Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
1090	Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
1100	Fueling areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
1110	Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If "No" describe. Comments: Area is not in use until new concrete is placed. Improvements are being made and trench drain is removed pending a new one.		☐	☑	☐

1120	Machinery: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
1130	Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If "No" describe. **Comments: In the lower east yard additional waste bins were added temporarily to aid in ongoing clean up efforts. One was uncovered and it was raining. It was supposed to have been removed from the site earlier in the day but the MRF is backlogged.**		☒	☐	☐
1140	Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
1150	Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
1160	Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☑	☐
1170	Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
1180	Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
1190	Leaks and spills: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
1200	**Sector P [60004-P]** Vehicle storage/maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
	Non-Compliance				
1220	Free of incidents of observed non-compliance not already identified above? If "No" describe.		☐	☐	☑
	Additional Control Measures				
1240	Are permit requirements satisfied with existing control measure(s)? If "No" describe additional control measures needed.		☐	☐	☑

Labor Report

Completed: 5/18/2023 2:30:00 PM

Report: Jacob Knight, DEP

Signature / Name	Date	Signature / Name	Date
J Knight	5/22/2023		

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: LARRY VELASQUEZ, GROUP LEADER

Signature: _____ Date: 5/31/2023

Los Alamos National Laboratory

Work Order MSGP-RI-66723

MSGP Routine Inspection
Printed 6/27/2023 - 3:29 PM

Maintenance Details

Requested: 6/20/2023 2:43:00 PM
Procedure: MSGP Routine Facility Inspection (MSGP Routine Facility Ins)
Last PM: 5/18/2023
Project: Routine Facility Inspections June 2023 (P-MSGP-RI-5654)

Target: 6/30/2023
Priority/Type: / Inspection
Department: Utilities and Infrastructure

MSGP Program
RG121.9
TA-60-0001 Heavy Equipment Yard

Contact:
Phone:

Reason: 2023 June Routine Facility Inspections

Tasks

#	Description	Meas.	No	N/A	Yes
Weather Information					
20	Describe the weather at time of inspection and document the temperature (F°). Comments: 85 degrees F and cloudy.		☐	☐	☑
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.		☐	☐	☑
50	If "No" has a CAR been previously initiated for this new discharge?		☐	☑	☐
60	Is the facility free of discharge of pollutants at the time of inspection? If "No" describe.		☐	☐	☑
70	Is the facility free of evidence of, or the potential for, pollutants entering the drainage system. If "No" describe.		☐	☐	☑
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 [022]** Free of Evidence of Erosion? If "No", describe.		☐	☐	☑
100	**Monitored Outfall [022]** Flow Dissipation Devices Operating Effectively? If "No", describe.		☐	☐	☑
110	**Monitored Outfall [022]** Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		☐	☐	☑
120	**Monitored Outfall [022]** Free of any unauthorized non-stormwater discharges? If "No" describe.		☐	☐	☑
130	**Substantially Identical Discharge Point [021]** Free of Evidence of Erosion? If "No", describe.		☐	☐	☑
140	**Substantially Identical Discharge Point [021]** Flow Dissipation Devices Operating Effectively? If "No", describe.		☐	☐	☑
150	**Substantially Identical Discharge Point [021]** Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		☐	☐	☑
160	**Substantially Identical Discharge Point [021]** Free of any unauthorized non-stormwater discharges? If "No" describe.		☐	☐	☑
170	**Substantially Identical Discharge Point [023]** Free of Evidence of Erosion? If "No", describe.		☐	☐	☑
180	**Substantially Identical Discharge Point [023]** Flow Dissipation Devices Operating Effectively? If "No", describe.		☐	☐	☑
190	**Substantially Identical Discharge Point [023]** Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.		☐	☐	☑
200	**Substantially Identical Discharge Point [023]** Free of any unauthorized non-stormwater discharges? If "No" describe.		☐	☐	☑
210	**Substantially Identical Discharge Point [024]** Free of Evidence of Erosion? If "No", describe.		☐	☐	☑
220	**Substantially Identical Discharge Point [024]** Flow Dissipation Devices Operating Effectively? If "No", describe.		☐	☐	☑

230	**Substantially Identical Discharge Point [024]** Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.	☐	☐	☑
240	**Substantially Identical Discharge Point [024]** Free of any unauthorized non-stormwater discharges? If "No" describe.	☐	☐	☑
250	**Substantially Identical Discharge Point [025]** Free of Evidence of Erosion? If "No", describe.	☐	☐	☑
260	**Substantially Identical Discharge Point [025]** Flow Dissipation Devices Operating Effectively? If "No", describe.	☐	☐	☑
270	**Substantially Identical Discharge Point [025]** Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe.	☐	☐	☑
280	**Substantially Identical Discharge Point [025]** Free of any unauthorized non-stormwater discharges? If "No" describe.	☐	☐	☑

Control Measures (identify needed maintenance and repairs, failed control measures that need replacment, or a description of corrective actions in relevant task comments).

300	**Asphalt Berm [6000403040027]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
310	**Asphalt Berm [6000403040028]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
320	**Asphalt Berm [6000403040029]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
330	**Asphalt Berm [6000403040047]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
340	**Gravel Bags [6000403100061]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
350	**Gravel Bags [6000403100095]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
360	**Gravel Bags [6000403100101]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
370	**Gravel Bags [6000403100146]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
380	**Concrete/Asphalt Channel/Swale [6000404020031]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
390	**Concrete/Asphalt Channel/Swale [6000404020032]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
400	**Eco-Block [6000403110060]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
410	**Rock Channel/Swale [6000404030023]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
420	**Rock Channel/Swale [6000404030043]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
430	**Rock Channel/Swale [6000404030073]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
440	**Riprap [6000404060002]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
450	**Riprap [6000404060039]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
460	**Straw Wattle [6000403060147]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
470	**Earthen Channel/Swale [6000404010033]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
480	**Earthen Channel/Swale [6000404010034]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
490	**Gabion Swale [6000404090042]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
500	**Rock Check Dam [6000406010010]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
510	**Rock Check Dam [6000406010011]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑
520	**Rock Check Dam [6000406010012]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	☐	☐	☑

530	**Rock Check Dam [6000406010013]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
540	**Rock Check Dam [6000406010014]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
550	**Rock Check Dam [6000406010015]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
560	**Rock Check Dam [6000406010016]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
570	**Rock Check Dam [6000406010017]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
580	**Rock Check Dam [6000406010018]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
590	**Rock Check Dam [6000406010019]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
600	**Rock Check Dam [6000406010020]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
610	**Rock Check Dam [6000406010021]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
620	**Rock Check Dam [6000406010022]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
630	**Rock Check Dam [6000406010052]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
640	**Rock Check Dam [6000406010053]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
650	**Rock Check Dam [6000406010054]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
660	**Rock Check Dam [6000406010055]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
670	**Rock Check Dam [6000406010056]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
680	**Rock Check Dam [6000406010057]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
690	**Rock Check Dam [6000406010058]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
700	**Rock Check Dam [6000406010074]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
710	**Rock Check Dam [6000406010075]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
720	**Rock Check Dam [6000406010076]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
730	**Rock Check Dam [6000406010077]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
740	**Rock Check Dam [6000406010098]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
750	**Rock Check Dam [6000406010099]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
760	**Gabion [6000407010035]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
770	**Gabion [6000407010036]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
780	**Gabion [6000407010037]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
790	**Gabion [6000407010038]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
800	**Drop inlet with filters [6000409020096]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
810	**Drop Inlet with Petro-Plug [6000409010100]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
820	**TRM-Lined Swale [6000404080142]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑

830	**TRM-Lined Swale [6000404080143]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
840	**TRM-Lined Swale [6000404080144]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
850	**Gravel Mulch [6000401050097]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
860	**Heavy Metal Filter Sock [6000403210127]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
870	**Heavy Metal Filter Sock [6000403210128]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
880	**Heavy Metal Filter Sock [6000403210129]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
890	**Heavy Metal Filter Sock [6000403210130]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
900	**Heavy Metal Filter Sock [6000403210131]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
910	**Heavy Metal Filter Sock [6000403210132]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
920	**Heavy Metal Filter Sock [6000403210133]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
930	**Heavy Metal Filter Sock [6000403210134]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
940	**Heavy Metal Filter Sock [6000403210135]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
950	**Heavy Metal Filter Sock [6000403210136]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
960	**Heavy Metal Filter Sock [6000403210137]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
970	**Heavy Metal Filter Sock [6000403210138]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
980	**Heavy Metal Filter Sock [6000403210139]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
990	**Heavy Metal Filter Sock [6000403210140]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
1000	**Heavy Metal Filter Sock [6000403210141]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
1010	**Heavy Metal Filter Sock [6000403210148]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
1020	**Heavy Metal Filter Sock [6000403210149]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑
1030	**Sediment Trap [6000405010145]** Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		☐	☐	☑

Area/Activity exposed to stormwater (identify needed mainteance or a description of corrective actions in relevant task comment).

1050	Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
1060	Transfer areas for substances in bulk: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
1070	Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
1080	Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
1090	Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
1100	Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
1110	Fueling areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
1120	Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If "No" describe. Comments: Area is still under construction. Concrete pad is nearly ready to be poured and the new trench drain is being installed.		☐	☑	☐

1130	Machinery: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
1140	Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
1150	Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
1160	Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
1170	Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☑	☐
1180	Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
1190	Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If "No" describe. Comments: Housekeeping was looking good		☐	☐	☑
1200	Leaks and spills: controls adequate (appropriate, effective, and operating)? If "No" describe. Comments: Micro-blaze was being re-applied on older stained areas		☐	☐	☑
1210	**Sector P [60004-P]** Vehicle storage/maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		☐	☐	☑
	Non-Compliance				
1230	Free of incidents of observed non-compliance not already identified above? If "No" describe.		☐	☐	☑
	Additional Control Measures				
1250	Are permit requirements satisfied with existing control measure(s)? If "No" describe additional control measures needed.		☐	☐	☑

Labor Report

Completed: 6/27/2023 2:15:00 PM

Report: Jacob Knight, DEP

Knight	6/27/2023		
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: LARRY VELASQUEZ Group Leader

Signature: [signature] Date: 7/10/2023

MSGP Record Print - Non-Employee Related Questionnaire (Clone) ⓘ

Questionnaire

Details

Date Of Response *	07/20/2023	**Questionnaire** *	MSGP RFI TA-60-0001 Heavy Equipment Yard (MSGP FAC TA-60-1 HEY)
Source	Environment Inspection/Survey Program	**QRHId**	383
Location		**Source Id**	MSGP 2023 TA60-1 HEY
Created By	Knight, Jacob (166552)		
Created by, used for transfer to EDRMS	Knight, Jacob		

Responses

1. Describe the weather at time of inspection and document the temperature (F).

Sunny and 85 degrees

2. WITHIN THE FACILITY BOUNDARY

3. Is the facility free of previously unidentified discharges from and/or pollutants that have occurred since the last inspection? If No, describe.

Yes

4. Has a CAR been previously initiated for discharge identified in the previous question?

N/A

5. Is the facility free of discharge of pollutants at the time of inspection? If No, describe.

Yes

6. Is the facility free of evidence of, or the potential for, pollutants entering the drainage system. If No, describe.

Yes

7. OUTFALL INSPECTION (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant question comment).

8. Monitored Outfall 022: Is the outfall free of evidence of erosion; free of evidence of pollutants in discharges and/or Receiving Water; AND free of any unauthorized non-stormwater discharges?

Yes

9. Monitored Outfall 022: Are flow dissipation devices operating effectively?

Yes

10. Substantially Identical Discharge Point 021: Is the outfall free of evidence of erosion; free of evidence of pollutants in discharges and/or Receiving Water; AND free of any unauthorized non-stormwater discharges?

Yes

11. Substantially Identical Discharge Point 021: Are flow dissipation devices operating effectively?

Yes

12. Substantially Identical Discharge Point 023: Is the outfall free of evidence of erosion; free of evidence of pollutants in discharges and/or Receiving Water; AND free of any unauthorized non-stormwater discharges?

Yes

13. Substantially Identical Discharge Point 023: Are flow dissipation devices operating effectively?

Yes

14. Substantially Identical Discharge Point 024: Are flow dissipation devices operating effectively?

Yes

15. Substantially Identical Discharge Point 024: Is the outfall free of evidence of erosion; free of evidence of pollutants in discharges and/or Receiving Water; AND free of any unauthorized non-stormwater discharges?

Yes

16. Substantially Identical Discharge Point 025: Is the outfall free of evidence of erosion; free of evidence of pollutants in discharges and/or Receiving Water; AND free of any unauthorized non-stormwater discharges?

Yes

17. Substantially Identical Discharge Point 025: Are flow dissipation devices operating effectively?

Yes

18. CONTROL MEASURES

19. Select control measures inspected. (Identify needed maintenance, repairs, failed control measures that need replacement, or description of corrective action in text box below.)

Asphalt Berm 6000403040027
Asphalt Berm 6000403040028
Asphalt Berm 6000403040029
Asphalt Berm 6000403040047
Concrete/Asphalt Channel/Swale 6000404020031
Concrete/Asphalt Channel/Swale 6000404020032
Drop Inlet with Filters 6000409020096
Drop Inlet with Petro-Plug 6000409010100
Earthen Channel/Swale 6000404010033
Earthen Channel/Swale 6000404010034
Eco-Block 6000403110060
Heavy Metal Filter Sock 6000403210127
Heavy Metal Filter Sock 6000403210128
Heavy Metal Filter Sock 6000403210129
Heavy Metal Filter Sock 6000403210130
Heavy Metal Filter Sock 6000403210131
Heavy Metal Filter Sock 6000403210132
Heavy Metal Filter Sock 6000403210133
Heavy Metal Filter Sock 6000403210134
Heavy Metal Filter Sock 6000403210135
Heavy Metal Filter Sock 6000403210136
Heavy Metal Filter Sock 6000403210137

Heavy Metal Filter Sock 6000403210138
Gabion 6000407010035
Gabion 6000407010036
Gabion 6000407010037
Gabion 6000407010038
Gabion Swale 6000404090042
Gravel Bags 6000403100061
Gravel Bags 6000403100095
Gravel Bags 6000403100101
Gravel Mulch 6000401050097
Riprap 6000404060002
Riprap 6000404060039
Rock Channel/Swale 6000404030023
Rock Channel/Swale 6000404030043
Rock Channel/Swale 6000404030073
Rock Check Dam 6000406010010
Rock Check Dam 6000406010011
Rock Check Dam 6000406010012
Rock Check Dam 6000406010013
Rock Check Dam 6000406010014
Rock Check Dam 6000406010015
Rock Check Dam 6000406010016
Rock Check Dam 6000406010017
Rock Check Dam 6000406010018
Rock Check Dam 6000406010019
Rock Check Dam 6000406010020
Rock Check Dam 6000406010021
Rock Check Dam 6000406010022
Rock Check Dam 6000406010052
Rock Check Dam 6000406010053
Rock Check Dam 6000406010054
Rock Check Dam 6000406010055
Rock Check Dam 6000406010056
Rock Check Dam 6000406010057
Rock Check Dam 6000406010058
Rock Check Dam 6000406010074
Rock Check Dam 6000406010075
Rock Check Dam 6000406010076
Rock Check Dam 6000406010077
Rock Check Dam 6000406010098
Rock Check Dam 6000406010099
Sediment Trap 6000405010145
Straw Wattle 6000403060147
TRM-Lined Swale 6000404080142
TRM-Lined Swale 6000404080143
TRM-Lined Swale 6000404080144
Heavy Metal Filter Sock 6000403210139
Heavy Metal Filter Sock 6000403210140
Heavy Metal Filter Sock 6000403210141
Heavy Metal Filter Sock 6000403210148
Heavy Metal Filter Sock 6000403210149

See CAR 2246: There are several gravel bags in disrepair that need replacing at the drop inlet in the lower east yard.

20. AREA/ACTIVITY EXPOSED TO STORMWATER (identify needed maintenance or a description of corrective actions in relevant question comment).

21. Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.

Yes

22. Transfer areas for substances in bulk: controls adequate (appropriate, effective, and operating)? If "No" describe.

Yes

23. Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe.

Yes

All metal materials associated with the metal fab activities are either under canopy or in a conex box.

24. Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe.

Yes

25. Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.

Yes

26. Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If No, describe.

Yes

27. Fueling areas: controls adequate (appropriate, effective, and operating)? If No, describe.

Yes

28. Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If No, describe.

Yes

The new concrete pad is finished for the wash bay along with a new trench drain.

29. Machinery: controls adequate (appropriate, effective, and operating)? If No, describe.

Yes

30. Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If No, describe.

Yes

31. Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If No, describe.

Yes

32. Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If No, describe.

Yes

33. Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If No, describe.

N/A

34. Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If No, describe.

Yes

35. Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If No, describe.

No

See CAR 2245: Some housekeeping/trash pickup is needed along the east perimeter of the lower east yard at TA-60-0001 Heavy Equipment Shop

36. Leaks and spills: controls adequate (appropriate, effective, and operating)? If No,

describe.
Yes

Fuel truck was actively fueling with proper drip/spill mats in place

37. Sector AA: Fabricated metal products: controls adequate (appropriate, effective, and operating)? If No, describe.

Yes

38. Free of incidents of observed non-compliance not already identified above? If "No" describe.

Yes

39. Are permit requirements satisfied with existing control measure(s)? If "No" describeadditional control measures needed.

Yes

40. Additional information:

41. Date inspection completed.

07/20/2023

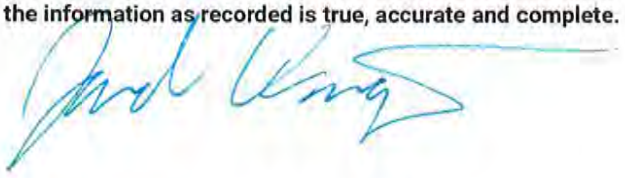
42. Time inspection completed.

1000

43. Select inspector name.

Knight, Jacob

44. Signature/Name
I confirm the information as recorded is true, accurate and complete.



45.

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, e.g., FOD, Ops Mgr, EPC Group or Team Leader)

46. Print name and title:

LARRY VELASQUEZ

47. Signature:

48. Date:

8/22/2023

Go To Top

Documents

View Documents for this Questionnaire

Description	Document Type	Document Date

MSGP Record Print - Non-Employee Related Questionnaire (Clone) ⓘ

Questionnaire

Details

Date Of Response *	08/29/2023	**Questionnaire** *	MSGP RFI TA-60-0001 Heavy Equipment Yard (MSGP FAC TA-60-1 HEY)
Source	Environmental Questionnaire	**QRHId**	616
Location		**Source Id**	616
Created By	Knight, Jacob (166552)		
Created by, used for transfer to EDRMS	Knight, Jacob		

Responses

1. Describe the weather at time of inspection and document the temperature (F).

73 degrees F and mostly sunny

2. WITHIN THE FACILITY BOUNDARY

3. Is the facility free of previously unidentified discharges from and/or pollutants that have occurred since the last inspection? If No, describe.

Yes

4. Has a CAR been previously initiated for discharge identified in the previous question?

N/A

5. Is the facility free of discharge of pollutants at the time of inspection? If No, describe.

Yes

6. Is the facility free of evidence of, or the potential for, pollutants entering the drainage system. If No, describe.

Yes

7. OUTFALL INSPECTION (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant question comment).

8. Monitored Outfall 022: Is the outfall free of evidence of erosion; free of evidence of pollutants in discharges and/or Receiving Water; AND free of any unauthorized non-stormwater discharges?

Yes

9. Monitored Outfall 022: Are flow dissipation devices operating effectively?

Yes

10. Substantially Identical Discharge Point 021: Is the outfall free of evidence of erosion; free of evidence of pollutants in discharges and/or Receiving Water; AND free of any unauthorized non-stormwater discharges?

Yes

11. Substantially Identical Discharge Point 021: Are flow dissipation devices operating effectively?

Yes

12. Substantially Identical Discharge Point 023: Is the outfall free of evidence of erosion; free of evidence of pollutants in discharges and/or Receiving Water; AND free of any unauthorized non-stormwater discharges?

Yes

13. Substantially Identical Discharge Point 023: Are flow dissipation devices operating effectively?

Yes

14. Substantially Identical Discharge Point 024: Are flow dissipation devices operating effectively?

Yes

15. Substantially Identical Discharge Point 024: Is the outfall free of evidence of erosion; free of evidence of pollutants in discharges and/or Receiving Water; AND free of any unauthorized non-stormwater discharges?

Yes

16. Substantially Identical Discharge Point 025: Is the outfall free of evidence of erosion; free of evidence of pollutants in discharges and/or Receiving Water; AND free of any unauthorized non-stormwater discharges?

Yes

17. Substantially Identical Discharge Point 025: Are flow dissipation devices operating effectively?

Yes

18. CONTROL MEASURES

19. Select control measures inspected. (Identify needed maintenance, repairs, failed control measures that need replacement, or description of corrective action in text box below.)

Asphalt Berm 6000403040027
Asphalt Berm 6000403040028
Asphalt Berm 6000403040029
Asphalt Berm 6000403040047
Concrete/Asphalt Channel/Swale 6000404020031
Concrete/Asphalt Channel/Swale 6000404020032
Drop Inlet with Filters 6000409020096
Drop Inlet with Petro-Plug 6000409010100
Earthen Channel/Swale 6000404010033
Earthen Channel/Swale 6000404010034
Eco-Block 6000403110060
Heavy Metal Filter Sock 6000403210127
Heavy Metal Filter Sock 6000403210128
Heavy Metal Filter Sock 6000403210129
Heavy Metal Filter Sock 6000403210130
Heavy Metal Filter Sock 6000403210131
Heavy Metal Filter Sock 6000403210132

Heavy Metal Filter Sock 6000403210133
Heavy Metal Filter Sock 6000403210134
Heavy Metal Filter Sock 6000403210135
Heavy Metal Filter Sock 6000403210136
Heavy Metal Filter Sock 6000403210137
Heavy Metal Filter Sock 6000403210138
Gabion 6000407010035
Gabion 6000407010036
Gabion 6000407010037
Gabion 6000407010038
Gabion Swale 6000404090042
Gravel Bags 6000403100061
Gravel Bags 6000403100095
Gravel Bags 6000403100101
Gravel Mulch 6000401050097
Riprap 6000404060002
Riprap 6000404060039
Rock Channel/Swale 6000404030023
Rock Channel/Swale 6000404030043
Rock Channel/Swale 6000404030073
Rock Check Dam 6000406010010
Rock Check Dam 6000406010011
Rock Check Dam 6000406010012
Rock Check Dam 6000406010013
Rock Check Dam 6000406010014
Rock Check Dam 6000406010015
Rock Check Dam 6000406010016
Rock Check Dam 6000406010017
Rock Check Dam 6000406010018
Rock Check Dam 6000406010019
Rock Check Dam 6000406010020
Rock Check Dam 6000406010021
Rock Check Dam 6000406010022
Rock Check Dam 6000406010052
Rock Check Dam 6000406010053
Rock Check Dam 6000406010054
Rock Check Dam 6000406010055
Rock Check Dam 6000406010056
Rock Check Dam 6000406010057
Rock Check Dam 6000406010058
Rock Check Dam 6000406010074
Rock Check Dam 6000406010075
Rock Check Dam 6000406010076
Rock Check Dam 6000406010077
Rock Check Dam 6000406010098
Rock Check Dam 6000406010099
Sediment Trap 6000405010145
Straw Wattle 6000403060147
TRM-Lined Swale 6000404080142
TRM-Lined Swale 6000404080143
TRM-Lined Swale 6000404080144
Heavy Metal Filter Sock 6000403210139
Heavy Metal Filter Sock 6000403210140
Heavy Metal Filter Sock 6000403210141

Heavy Metal Filter Sock 6000403210148
Heavy Metal Filter Sock 6000403210149

Rock Check Dam 6000406010055 had accumulated sediment that needs to be removed. See CAR # 2265.

20. AREA/ACTIVITY EXPOSED TO STORMWATER (identify needed maintenance or a description of corrective actions in relevant question comment).

21. Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.

Yes

22. Transfer areas for substances in bulk: controls adequate (appropriate, effective, and operating)? If "No" describe.

Yes

23. Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe.

Yes

24. Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe.

Yes

25. Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.

Yes

26. Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If No, describe.

Yes

27. Fueling areas: controls adequate (appropriate, effective, and operating)? If No, describe.

Yes

Fuel mats for potential drips were being used

28. Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If No, describe.

Yes

New concrete pad and trench drain to OWS is complete and functional.

29. Machinery: controls adequate (appropriate, effective, and operating)? If No, describe.

Yes

30. Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If No, describe.

No

CAR # 2266: Subcontracted HVAC project at TA-60-1 is staging equipment and material in the lower east yard. The project has a concrete washout pit with lumber and plastic and there is concrete outside of it on the dirt that needs to be cleaned up. The plastic is falling down as well.

CAR # 2267: Tarp covering the metal recycle dumpster bin has holes in it. The MSGP requires covers for waste bins in use to be effective in preventing precipitation from accumulating.

31. Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If No, describe.

Yes

Potholing was occurring on north side. Unknown reason.

32. Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If No, describe.

Yes

33. Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If No, describe.

N/A

34. Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If No, describe.

Yes

35. Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If No, describe.

Yes

36. Leaks and spills: controls adequate (appropriate, effective, and operating)? If No, describe.

Yes

37. Sector AA: Fabricated metal products: controls adequate (appropriate, effective, and operating)? If No, describe.

Yes

38. Free of incidents of observed non-compliance not already identified above? If "No" describe.

Yes

39. Are permit requirements satisfied with existing control measure(s)? If "No" describeadditional control measures needed.

Yes

40. Additional information:

41. Date inspection completed.

08/29/2023

42. Time inspection completed.

12:30

43. Select inspector name.

Knight, Jacob

44. Signature/Name
I confirm the information as recorded is true, accurate and complete.

45.

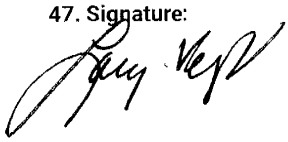
Certification Statement

"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, e.g., FOD, Ops Mgr, EPC Group or Team Leader)

46. Print name and title:

LARRY VELASQUEZ

47. Signature:



48. Date:

9/7/2023

Go to Top

MSGP Record Print - Non-Employee Related Questionnaire (Clone) ⓘ

Questionnaire

Details

Date Of Response *	09/14/2023	**Questionnaire** *	MSGP RFI TA-60-0001 Heavy Equipment Yard (MSGP FAC TA-60-1 HEY)
Source	Environmental Questionnaire	**QRHId**	652
Location		**Source Id**	652
Created By	Knight, Jacob (166552)		
Created by, used for transfer to EDRMS	Knight, Jacob		

Responses

1. Describe the weather at time of inspection and document the temperature (F).

59 degrees F and light rain

2.

WITHIN THE FACILITY BOUNDARY

3. Is the facility free of previously unidentified discharges from and/or pollutants that have occurred since the last inspection? If No, describe.

Yes

4. Has a CAR been previously initiated for discharge identified in the previous question?

N/A

5. Is the facility free of discharge of pollutants at the time of inspection? If No, describe.

Yes

Light flow in drainage channels. Clear stormwater.

6. Is the facility free of evidence of, or the potential for, pollutants entering the drainage system. If No, describe.

No

See CA# 2269: A subcontractor for an HVAC project is performing potholing in the access road on the north side of the 60-1 building. They have debris and dirt piles with no sediment controls. With recent rain sediment is migrating across the asphalt. This was cleaned up and addressed same day, sediment control perimeter of gravel bags installed at down gradient side of active area.

7.

OUTFALL INSPECTION (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant question comment).

8. Monitored Outfall 022: Is the outfall free of evidence of erosion; free of evidence of pollutants in discharges and/or Receiving Water; AND free of any unauthorized non-stormwater discharges?

Yes

9. Monitored Outfall 022: Are flow dissipation devices operating effectively?

Yes

10. Substantially Identical Discharge Point 021: Is the outfall free of evidence of erosion; free of evidence of pollutants in discharges and/or Receiving Water; AND free of any unauthorized non-stormwater discharges?

Yes

11. Substantially Identical Discharge Point 021: Are flow dissipation devices operating effectively?

Yes

12. Substantially Identical Discharge Point 023: Is the outfall free of evidence of erosion; free of evidence of pollutants in discharges and/or Receiving Water; AND free of any unauthorized non-stormwater discharges?

Yes

13. Substantially Identical Discharge Point 023: Are flow dissipation devices operating effectively?

Yes

14. Substantially Identical Discharge Point 024: Are flow dissipation devices operating effectively?

Yes

15. Substantially Identical Discharge Point 024: Is the outfall free of evidence of erosion; free of evidence of pollutants in discharges and/or Receiving Water; AND free of any unauthorized non-stormwater discharges?

Yes

16. Substantially Identical Discharge Point 025: Is the outfall free of evidence of erosion; free of evidence of pollutants in discharges and/or Receiving Water; AND free of any unauthorized non-stormwater discharges?

Yes

17. Substantially Identical Discharge Point 025: Are flow dissipation devices operating effectively?

Yes

18.

CONTROL MEASURES

19. Select control measures inspected. (Identify needed maintenance, repairs, failed control measures that need replacement, or description of corrective action in text box below.)

Asphalt Berm 6000403040027
Asphalt Berm 6000403040028
Asphalt Berm 6000403040029
Asphalt Berm 6000403040047
Concrete/Asphalt Channel/Swale 6000404020031
Concrete/Asphalt Channel/Swale 6000404020032
Drop Inlet with Filters 6000409020096
Drop Inlet with Petro-Plug 6000409010100
Earthen Channel/Swale 6000404010033

Earthen Channel/Swale 6000404010034
Eco-Block 6000403110060
Heavy Metal Filter Sock 6000403210127
Heavy Metal Filter Sock 6000403210128
Heavy Metal Filter Sock 6000403210129
Heavy Metal Filter Sock 6000403210130
Heavy Metal Filter Sock 6000403210131
Heavy Metal Filter Sock 6000403210132
Heavy Metal Filter Sock 6000403210133
Heavy Metal Filter Sock 6000403210134
Heavy Metal Filter Sock 6000403210135
Heavy Metal Filter Sock 6000403210136
Heavy Metal Filter Sock 6000403210137
Heavy Metal Filter Sock 6000403210138
Gabion 6000407010035
Gabion 6000407010036
Gabion 6000407010037
Gabion 6000407010038
Gabion Swale 6000404090042
Gravel Bags 6000403100061
Gravel Bags 6000403100095
Gravel Bags 6000403100101
Gravel Mulch 6000401050097
Riprap 6000404060002
Riprap 6000404060039
Rock Channel/Swale 6000404030023
Rock Channel/Swale 6000404030043
Rock Channel/Swale 6000404030073
Rock Check Dam 6000406010010
Rock Check Dam 6000406010011
Rock Check Dam 6000406010012
Rock Check Dam 6000406010013
Rock Check Dam 6000406010014
Rock Check Dam 6000406010015
Rock Check Dam 6000406010016
Rock Check Dam 6000406010017
Rock Check Dam 6000406010018
Rock Check Dam 6000406010019
Rock Check Dam 6000406010020
Rock Check Dam 6000406010021
Rock Check Dam 6000406010022
Rock Check Dam 6000406010052
Rock Check Dam 6000406010053
Rock Check Dam 6000406010054
Rock Check Dam 6000406010055
Rock Check Dam 6000406010056
Rock Check Dam 6000406010057
Rock Check Dam 6000406010058
Rock Check Dam 6000406010074
Rock Check Dam 6000406010075
Rock Check Dam 6000406010076
Rock Check Dam 6000406010077
Rock Check Dam 6000406010098
Rock Check Dam 6000406010099

Sediment Trap 6000405010145
Straw Wattle 6000403060147
TRM-Lined Swale 6000404080142
TRM-Lined Swale 6000404080143
TRM-Lined Swale 6000404080144
Heavy Metal Filter Sock 6000403210139
Heavy Metal Filter Sock 6000403210140
Heavy Metal Filter Sock 6000403210141
Heavy Metal Filter Sock 6000403210148
Heavy Metal Filter Sock 6000403210149

On Sep. 5th all the rock check dams had sediment build up removed. They are functioning well in the current rain.

20.

AREA/ACTIVITY EXPOSED TO STORMWATER (identify needed maintenance or a description of corrective actions in relevant question comment).

21. Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.

Yes

22. Transfer areas for substances in bulk: controls adequate (appropriate, effective, and operating)? If "No" describe.

Yes

23. Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe.

Yes

24. Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe.

Yes

25. Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.

Yes

26. Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If No, describe.

Yes

27. Fueling areas: controls adequate (appropriate, effective, and operating)? If No, describe.

Yes

28. Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If No, describe.

Yes

29. Machinery: controls adequate (appropriate, effective, and operating)? If No, describe.

Yes

30. Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If No, describe.

Yes

Dumpsters were covered

31. Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If No, describe.

Yes

32. Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If No, describe.

Yes

33. Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If No, describe.

N/A

34. Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If No, describe.

Yes

35. Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If No, describe.

Yes

36. Leaks and spills: controls adequate (appropriate, effective, and operating)? If No, describe.

Yes

37. Sector AA: Fabricated metal products: controls adequate (appropriate, effective, and operating)? If No, describe.

Yes

Metal is stored indoors or in transportainers.

38. Free of incidents of observed non-compliance not already identified above? If "No" describe.

Yes

39. Are permit requirements satisfied with existing control measure(s)? If "No" describeadditional control measures needed.

Yes

40. Additional information:

41. Date inspection completed.

09/14/2023

42. Time inspection completed.

1400

43. Select inspector name.

Knight, Jacob

44. Signature/Name
I confirm the information as recorded is true, accurate and complete.

45.

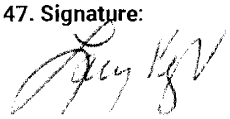
Certification Statement

"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, e.g., FOD, Ops Mgr, EPC Group or Team Leader)

46. Print name and title:

LARRY VELASQUEZ, Group Leader

47. Signature:



48. Date: 7/27/2023

Go To Top

MSGP Record Print - Non-Employee Related Questionnaire (Clone) ⓘ

Questionnaire

Details

Date Of Response *	10/27/2023	**Questionnaire** *	MSGP RFI TA-60-0001 Heavy Equipment Yard (MSGP FAC TA-60-1 HEY)
Source	Environment Inspection/Survey Program	**QRHId**	781
Location		**Source Id**	MSGP 2023 TA60-1 HEY
Created By	Knight, Jacob (166552)		
Created by, used for transfer to EDRMS	Knight, Jacob		

Responses

1. Describe the weather at time of inspection and document the temperature (F).

55 degrees F and mostly sunny

2.

WITHIN THE FACILITY BOUNDARY

3. Is the facility free of previously unidentified discharges from and/or pollutants that have occurred since the last inspection? If No, describe.

Yes

4. Has a CAR been previously initiated for discharge identified in the previous question?

N/A

5. Is the facility free of discharge of pollutants at the time of inspection? If No, describe.

Yes

6. Is the facility free of evidence of, or the potential for, pollutants entering the drainage system. If No, describe.

Yes

7.

OUTFALL INSPECTION (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant question comment).

8. Monitored Outfall 022: Is the outfall free of evidence of erosion; free of evidence of pollutants in discharges and/or Receiving Water; AND free of any unauthorized non-stormwater discharges?

Yes

9. Monitored Outfall 022: Are flow dissipation devices operating effectively?

Yes

10. Substantially Identical Discharge Point 021: Is the outfall free of evidence of erosion; free of evidence of pollutants in discharges and/or Receiving Water; AND free of any unauthorized non-stormwater discharges?

Yes

11. Substantially Identical Discharge Point 021: Are flow dissipation devices operating effectively?

Yes

12. Substantially Identical Discharge Point 023: Is the outfall free of evidence of erosion; free of evidence of pollutants in discharges and/or Receiving Water; AND free of any unauthorized non-stormwater discharges?

Yes

13. Substantially Identical Discharge Point 023: Are flow dissipation devices operating effectively?

Yes

14. Substantially Identical Discharge Point 024: Are flow dissipation devices operating effectively?

Yes

15. Substantially Identical Discharge Point 024: Is the outfall free of evidence of erosion; free of evidence of pollutants in discharges and/or Receiving Water; AND free of any unauthorized non-stormwater discharges?

Yes

16. Substantially Identical Discharge Point 025: Is the outfall free of evidence of erosion; free of evidence of pollutants in discharges and/or Receiving Water; AND free of any unauthorized non-stormwater discharges?

Yes

17. Substantially Identical Discharge Point 025: Are flow dissipation devices operating effectively?

Yes

18.

CONTROL MEASURES

19. Select control measures inspected. (Identify needed maintenance, repairs, failed control measures that need replacement, or description of corrective action in text box below.)

Asphalt Berm 6000403040027
Asphalt Berm 6000403040028
Asphalt Berm 6000403040029
Asphalt Berm 6000403040047
Concrete/Asphalt Channel/Swale 6000404020031
Concrete/Asphalt Channel/Swale 6000404020032
Drop Inlet with Filters 6000409020096
Drop Inlet with Petro-Plug 6000409010100
Earthen Channel/Swale 6000404010033
Earthen Channel/Swale 6000404010034
Eco-Block 6000403110060
Gabion 6000407010035
Gabion 6000407010036
Gabion 6000407010037

Gabion 6000407010038
Gabion Swale 6000404090042
Gravel Bags 6000403100061
Gravel Bags 6000403100095
Gravel Bags 6000403100101
Gravel Bags 6000403100146
Gravel Mulch 6000401050097
Heavy Metal Filter Sock 6000403210127
Heavy Metal Filter Sock 6000403210128
Heavy Metal Filter Sock 6000403210129
Heavy Metal Filter Sock 6000403210130
Heavy Metal Filter Sock 6000403210131
Heavy Metal Filter Sock 6000403210132
Heavy Metal Filter Sock 6000403210133
Heavy Metal Filter Sock 6000403210134
Heavy Metal Filter Sock 6000403210135
Heavy Metal Filter Sock 6000403210136
Heavy Metal Filter Sock 6000403210137
Heavy Metal Filter Sock 6000403210138
Heavy Metal Filter Sock 6000403210139
Heavy Metal Filter Sock 6000403210140
Heavy Metal Filter Sock 6000403210141
Heavy Metal Filter Sock 6000403210148
Heavy Metal Filter Sock 6000403210149
Riprap 6000404060002
Riprap 6000404060039
Rock Channel/Swale 6000404030023
Rock Channel/Swale 6000404030043
Rock Channel/Swale 6000404030073
Rock Check Dam 6000406010010
Rock Check Dam 6000406010011
Rock Check Dam 6000406010012
Rock Check Dam 6000406010013
Rock Check Dam 6000406010014
Rock Check Dam 6000406010015
Rock Check Dam 6000406010016
Rock Check Dam 6000406010017
Rock Check Dam 6000406010018
Rock Check Dam 6000406010019
Rock Check Dam 6000406010020
Rock Check Dam 6000406010021
Rock Check Dam 6000406010022
Rock Check Dam 6000406010052
Rock Check Dam 6000406010053
Rock Check Dam 6000406010054
Rock Check Dam 6000406010055
Rock Check Dam 6000406010056
Rock Check Dam 6000406010057
Rock Check Dam 6000406010058
Rock Check Dam 6000406010074
Rock Check Dam 6000406010075
Rock Check Dam 6000406010076
Rock Check Dam 6000406010077
Rock Check Dam 6000406010098

Rock Check Dam 6000406010099
Sediment Trap 6000405010145
Straw Wattle 6000403060147
Trench Drain 6000409040046
TRM-Lined Swale 6000404080142
TRM-Lined Swale 6000404080143
TRM-Lined Swale 6000404080144

20.

AREA/ACTIVITY EXPOSED TO STORMWATER (identify needed maintenance or a description of corrective actions in relevant question comment).

21. Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.

Yes

22. Transfer areas for substances in bulk: controls adequate (appropriate, effective, and operating)? If "No" describe.

Yes

23. Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe.

Yes

24. Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe.

Yes

25. Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.

Yes

26. Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If No, describe.

Yes

27. Fueling areas: controls adequate (appropriate, effective, and operating)? If No, describe.

Yes

28. Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If No, describe.

Yes

29. Machinery: controls adequate (appropriate, effective, and operating)? If No, describe.

Yes

30. Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If No, describe.

Yes

31. Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If No, describe.

Yes

32. Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If No, describe.

Yes

33. Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If No, describe.

N/A

34. Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If No, describe.

Yes

35. Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If No, describe.

Yes

36. Leaks and spills: controls adequate (appropriate, effective, and operating)? If No, describe.

Yes

37. Sector AA: Fabricated metal products: controls adequate (appropriate, effective, and operating)? If No, describe.

Yes

38. Free of incidents of observed non-compliance not already identified above? If "No" describe.

Yes

39. Are permit requirements satisfied with existing control measure(s)? If "No" describe additional control measures needed.

Yes

40. Additional information:

41. Date inspection completed.

10/27/2023

42. Time inspection completed.

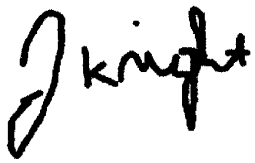
1030

43. Select inspector name.

Knight, Jacob

44. Signature/Name

I confirm the information as recorded is true, accurate and complete.



45.

Certification Statement

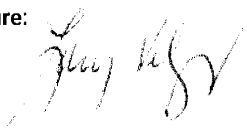
"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information contained therein. Based on my inquiry of the person or persons 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, e.g., FOD, Ops Mgr, EPC Group or Team Leader)

46. Print name and title:

Larry Vela Senior Geologist

47. Signature:



48. Date: 11/20/2023

Go to Top

Documents

View Documents for this Questionnaire

Description	Document Type	Document Date

MSGP Record Print - Non-Employee Related Questionnaire (Clone) ⓘ

Questionnaire

Details

Date Of Response *	11/09/2023	**Questionnaire** *	MSGP RFI TA-60-0001 Heavy Equipment Yard (MSGP FAC TA-60-1 HEY)
Source	Environment Inspection/Survey Program	**QRHId**	861
Location		**Source Id**	MSGP 2023 TA60-1 HEY
Created By	Knight, Jacob (166552)		
Created by, used for transfer to EDRMS	Knight, Jacob		

Responses

1. Describe the weather at time of inspection and document the temperature (F).

39 degrees F. Slight snow flurries and cloudy.

2.

WITHIN THE FACILITY BOUNDARY

3. Is the facility free of previously unidentified discharges from and/or pollutants that have occurred since the last inspection? If No, describe.

Yes

4. Has a CAR been previously initiated for discharge identified in the previous question?

N/A

5. Is the facility free of discharge of pollutants at the time of inspection? If No, describe.

Yes

6. Is the facility free of evidence of, or the potential for, pollutants entering the drainage system. If No, describe.

Yes

7.

OUTFALL INSPECTION (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant question comment).

8. Monitored Outfall 022: Is the outfall free of evidence of erosion; free of evidence of pollutants in discharges and/or Receiving Water; AND free of any unauthorized non-stormwater discharges?

Yes

9. Monitored Outfall 022: Are flow dissipation devices operating effectively?

Yes

10. Substantially Identical Discharge Point 021: Is the outfall free of evidence of erosion; free of evidence of pollutants in discharges and/or Receiving Water; AND free of any unauthorized non-stormwater discharges?

Yes

11. Substantially Identical Discharge Point 021: Are flow dissipation devices operating effectively?

Yes

12. Substantially Identical Discharge Point 023: Is the outfall free of evidence of erosion; free of evidence of pollutants in discharges and/or Receiving Water; AND free of any unauthorized non-stormwater discharges?

Yes

13. Substantially Identical Discharge Point 023: Are flow dissipation devices operating effectively?

Yes

14. Substantially Identical Discharge Point 024: Are flow dissipation devices operating effectively?

Yes

15. Substantially Identical Discharge Point 024: Is the outfall free of evidence of erosion; free of evidence of pollutants in discharges and/or Receiving Water; AND free of any unauthorized non-stormwater discharges?

Yes

16. Substantially Identical Discharge Point 025: Is the outfall free of evidence of erosion; free of evidence of pollutants in discharges and/or Receiving Water; AND free of any unauthorized non-stormwater discharges?

Yes

17. Substantially Identical Discharge Point 025: Are flow dissipation devices operating effectively?

Yes

18.

CONTROL MEASURES

19. Select control measures inspected. (Identify needed maintenance, repairs, failed control measures that need replacement, or description of corrective action in text box below.)

Asphalt Berm 6000403040027
Asphalt Berm 6000403040028
Asphalt Berm 6000403040029
Asphalt Berm 6000403040047
Concrete/Asphalt Channel/Swale 6000404020031
Concrete/Asphalt Channel/Swale 6000404020032
Drop Inlet with Filters 6000409020096
Drop Inlet with Petro-Plug 6000409010100
Earthen Channel/Swale 6000404010033
Earthen Channel/Swale 6000404010034
Eco-Block 6000403110060
Gabion 6000407010035
Gabion 6000407010036
Gabion 6000407010037

Gabion 6000407010038
Gabion Swale 6000404090042
Gravel Bags 6000403100061
Gravel Bags 6000403100095
Gravel Bags 6000403100101
Gravel Bags 6000403100146
Gravel Mulch 6000401050097
Heavy Metal Filter Sock 6000403210127
Heavy Metal Filter Sock 6000403210128
Heavy Metal Filter Sock 6000403210129
Heavy Metal Filter Sock 6000403210130
Heavy Metal Filter Sock 6000403210131
Heavy Metal Filter Sock 6000403210132
Heavy Metal Filter Sock 6000403210133
Heavy Metal Filter Sock 6000403210134
Heavy Metal Filter Sock 6000403210135
Heavy Metal Filter Sock 6000403210136
Heavy Metal Filter Sock 6000403210137
Heavy Metal Filter Sock 6000403210138
Heavy Metal Filter Sock 6000403210139
Heavy Metal Filter Sock 6000403210140
Heavy Metal Filter Sock 6000403210141
Heavy Metal Filter Sock 6000403210148
Heavy Metal Filter Sock 6000403210149
Riprap 6000404060002
Riprap 6000404060039
Rock Channel/Swale 6000404030023
Rock Channel/Swale 6000404030043
Rock Channel/Swale 6000404030073
Rock Check Dam 6000406010010
Rock Check Dam 6000406010011
Rock Check Dam 6000406010012
Rock Check Dam 6000406010013
Rock Check Dam 6000406010014
Rock Check Dam 6000406010015
Rock Check Dam 6000406010016
Rock Check Dam 6000406010017
Rock Check Dam 6000406010018
Rock Check Dam 6000406010019
Rock Check Dam 6000406010020
Rock Check Dam 6000406010021
Rock Check Dam 6000406010022
Rock Check Dam 6000406010052
Rock Check Dam 6000406010053
Rock Check Dam 6000406010054
Rock Check Dam 6000406010055
Rock Check Dam 6000406010056
Rock Check Dam 6000406010057
Rock Check Dam 6000406010058
Rock Check Dam 6000406010074
Rock Check Dam 6000406010075
Rock Check Dam 6000406010076
Rock Check Dam 6000406010077
Rock Check Dam 6000406010098

Rock Check Dam 6000406010099
Sediment Trap 6000405010145
Straw Wattle 6000403060147
Trench Drain 6000409040046
TRM-Lined Swale 6000404080142
TRM-Lined Swale 6000404080143
TRM-Lined Swale 6000404080144

20.

AREA/ACTIVITY EXPOSED TO STORMWATER (identify needed maintenance or a description of corrective actions in relevant question comment).

21. Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.

Yes

22. Transfer areas for substances in bulk: controls adequate (appropriate, effective, and operating)? If "No" describe.

Yes

23. Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe.

Yes

24. Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe.

Yes

25. Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.

Yes

26. Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If No, describe.

Yes

27. Fueling areas: controls adequate (appropriate, effective, and operating)? If No, describe.

No

See CAR # 2297: Fuel Mat for spill management at the mobile refueling site is in disrepair and no longer functional. A functional spill prevention control measure is required for drips and spills from active fueling at the fueling area.

28. Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If No, describe.

Yes

29. Machinery: controls adequate (appropriate, effective, and operating)? If No, describe.

Yes

30. Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If No, describe.

Yes

31. Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If No, describe.

Yes

32. Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If No, describe.

Yes

33. Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If No, describe.

N/A

34. Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If No, describe.

Yes

35. Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If No, describe.

Yes

36. Leaks and spills: controls adequate (appropriate, effective, and operating)? If No, describe.

No

See CAR # 2298: Approximately 10 gallons of potassium acetate (road pre-treatment) was discharged from an unknown source and ran through base course in the lower east yard. When this product is not used as intended and is discharged in this manner it is a spill.
See CAR # 2299: Outside the east bays of TA-60-1 there are several small oil spills that need cleaning and micro-blazing.

37. Sector AA: Fabricated metal products: controls adequate (appropriate, effective, and operating)? If No, describe.

Yes

No raw metals for these activities are exposed to precipitation.

38. Free of incidents of observed non-compliance not already identified above? If "No" describe.

Yes

39. Are permit requirements satisfied with existing control measure(s)? If "No" describe additional control measures needed.

Yes

40. Additional information:

41. Date inspection completed.

11/09/2023

42. Time inspection completed.

43. Select inspector name.

Knight, Jacob

44. Signature/Name
I confirm the information as recorded is true, accurate and complete.

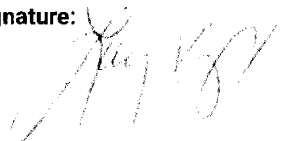
45.

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, e.g., FOD, Ops Mgr, EPC Group or Team Leader)

46. Print name and title:

47. Signature:



48. Date: 11/27/2023

Go To Top

Documents

View Documents for this Questionnaire

MSGP Record Print - Non-Employee Related Questionnaire (Clone) ⓘ

Questionnaire

Details

Date Of Response *	12/18/2023	**Questionnaire** *	MSGP RFI TA-60-0001 Heavy Equipment Yard (MSGP FAC TA-60-1 HEY)
Source	Environment Inspection/Survey Program	**QRHId**	978
Location	TA-60-0001 Heavy Equipment Yard(MSGP-0006)	**Source Id**	MSGP 2023 TA60-1 HEY
Created By	Knight, Jacob (166552)		
Created by, used for transfer to EDRMS	Knight, Jacob		

Responses

1. Describe the weather at time of inspection and document the temperature (F).

39 degrees F and mostly sunny. Several inches of snow on the ground in areas not plowed.

2.

WITHIN THE FACILITY BOUNDARY

3. Is the facility free of previously unidentified discharges from and/or pollutants that have occurred since the last inspection? If No, describe.

Yes

4. Has a CAR been previously initiated for discharge identified in the previous question?

N/A

5. Is the facility free of discharge of pollutants at the time of inspection? If No, describe.

Yes

6. Is the facility free of evidence of, or the potential for, pollutants entering the drainage system. If No, describe.

Yes

7.

OUTFALL INSPECTION (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant question comment).

8. Monitored Outfall 022: Is the outfall free of evidence of erosion; free of evidence of pollutants in discharges and/or Receiving Water; AND free of any unauthorized non-stormwater discharges?

Yes

9. Monitored Outfall 022: Are flow dissipation devices operating effectively?

Yes

10. Substantially Identical Discharge Point 021: Is the outfall free of evidence of erosion; free of evidence of pollutants in discharges and/or Receiving Water; AND free of any unauthorized non-stormwater discharges?

Yes

11. Substantially Identical Discharge Point 021: Are flow dissipation devices operating effectively?

Yes

12. Substantially Identical Discharge Point 023: Is the outfall free of evidence of erosion; free of evidence of pollutants in discharges and/or Receiving Water; AND free of any unauthorized non-stormwater discharges?

Yes

13. Substantially Identical Discharge Point 023: Are flow dissipation devices operating effectively?

Yes

14. Substantially Identical Discharge Point 024: Are flow dissipation devices operating effectively?

Yes

15. Substantially Identical Discharge Point 024: Is the outfall free of evidence of erosion; free of evidence of pollutants in discharges and/or Receiving Water; AND free of any unauthorized non-stormwater discharges?

Yes

16. Substantially Identical Discharge Point 025: Is the outfall free of evidence of erosion; free of evidence of pollutants in discharges and/or Receiving Water; AND free of any unauthorized non-stormwater discharges?

Yes

17. Substantially Identical Discharge Point 025: Are flow dissipation devices operating effectively?

Yes

18.

CONTROL MEASURES

19. Select control measures inspected. (Identify needed maintenance, repairs, failed control measures that need replacement, or description of corrective action in text box below.)

Asphalt Berm 6000403040027
Asphalt Berm 6000403040028
Asphalt Berm 6000403040029
Asphalt Berm 6000403040047
Concrete/Asphalt Channel/Swale 6000404020031
Concrete/Asphalt Channel/Swale 6000404020032
Drop Inlet with Filters 6000409020096
Drop Inlet with Petro-Plug 6000409010100
Earthen Channel/Swale 6000404010033
Earthen Channel/Swale 6000404010034
Eco-Block 6000403110060
Gabion 6000407010035
Gabion 6000407010036
Gabion 6000407010037

Gabion 6000407010038
Gabion Swale 6000404090042
Gravel Bags 6000403100061
Gravel Bags 6000403100095
Gravel Bags 6000403100101
Gravel Bags 6000403100146
Gravel Mulch 6000401050097
Heavy Metal Filter Sock 6000403210127
Heavy Metal Filter Sock 6000403210128
Heavy Metal Filter Sock 6000403210129
Heavy Metal Filter Sock 6000403210130
Heavy Metal Filter Sock 6000403210131
Heavy Metal Filter Sock 6000403210132
Heavy Metal Filter Sock 6000403210133
Heavy Metal Filter Sock 6000403210134
Heavy Metal Filter Sock 6000403210135
Heavy Metal Filter Sock 6000403210136
Heavy Metal Filter Sock 6000403210137
Heavy Metal Filter Sock 6000403210138
Heavy Metal Filter Sock 6000403210139
Heavy Metal Filter Sock 6000403210140
Heavy Metal Filter Sock 6000403210141
Heavy Metal Filter Sock 6000403210148
Heavy Metal Filter Sock 6000403210149
Riprap 6000404060002
Riprap 6000404060039
Rock Channel/Swale 6000404030023
Rock Channel/Swale 6000404030043
Rock Channel/Swale 6000404030073
Rock Check Dam 6000406010010
Rock Check Dam 6000406010011
Rock Check Dam 6000406010012
Rock Check Dam 6000406010013
Rock Check Dam 6000406010014
Rock Check Dam 6000406010015
Rock Check Dam 6000406010016
Rock Check Dam 6000406010017
Rock Check Dam 6000406010018
Rock Check Dam 6000406010019
Rock Check Dam 6000406010020
Rock Check Dam 6000406010021
Rock Check Dam 6000406010022
Rock Check Dam 6000406010052
Rock Check Dam 6000406010053
Rock Check Dam 6000406010054
Rock Check Dam 6000406010055
Rock Check Dam 6000406010056
Rock Check Dam 6000406010057
Rock Check Dam 6000406010058
Rock Check Dam 6000406010074
Rock Check Dam 6000406010075
Rock Check Dam 6000406010076
Rock Check Dam 6000406010077
Rock Check Dam 6000406010098

Rock Check Dam 6000406010099
Sediment Trap 6000405010145
Straw Wattle 6000403060147
Trench Drain 6000409040046
TRM-Lined Swale 6000404080142
TRM-Lined Swale 6000404080143
TRM-Lined Swale 6000404080144

Note that the majority of the stormwater controls onsite were under snow.

20.

AREA/ACTIVITY EXPOSED TO STORMWATER (identify needed maintenance or a description of corrective actions in relevant question comment).

21. Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.

Yes

22. Transfer areas for substances in bulk: controls adequate (appropriate, effective, and operating)? If "No" describe.

Yes

23. Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe.

Yes

24. Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe.

Yes

25. Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.

Yes

26. Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If No, describe.

Yes

27. Fueling areas: controls adequate (appropriate, effective, and operating)? If No, describe.

Yes

New fuel mats in use

28. Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If No, describe.

Yes

29. Machinery: controls adequate (appropriate, effective, and operating)? If No, describe.

No

See CA# 2337: Four pieces of old equipment including a concrete cutter, a Mega Arc Contractor, a Target Econoline II and a Miller Big 20G constant current DC Welding Generator appear to be abandoned in the lower east yard on the south side. All have liquids (fuel, oil and possibly ethylene glycol) present in them. The MSGP requires fluids be drained from equipment and vehicles that will be decommissioned, and, for any equipment and vehicles that will remain unused for extended periods of time. The four pieces of equipment appear to have been stored outside with liquids present (fuel and oil) for an extended period of time. Drain all fluids from this equipment.

30. Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If No, describe.

No

See CA# 2338: Aluminum ducting waste as part of the Champ HVAC Project is being stored on the ground uncovered next to a covered roll-off bin.
See CA# 2339: There is a concrete washout area for the CHAMP HVAC project that is covered with snow. There is not enough free board to prevent off-site migration of pollutants from this washout area.
See CA # 2336: The southern most roll-off bin containing metal for recycle is not completely covered. There is space where precipitation could enter the bin.

31. Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If No, describe.

Yes

32. Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If No, describe.

Yes

33. Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If No, describe.

N/A

34. Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If No, describe.

Yes

35. Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If No, describe.

No

See CA# 2335: There are boxes of product Tire Seal by the east middle dock out in the snow. Product should be protected to prevent degeneration. There is a gray trash can that contained trash and was not covered. It now contains snow. There are steel cutting edges stored by outfall 023 that should be covered or moved under a canopy.

36. Leaks and spills: controls adequate (appropriate, effective, and operating)? If No, describe.

Yes

37. Sector AA: Fabricated metal products: controls adequate (appropriate, effective, and operating)? If No, describe.

Yes

38. Free of incidents of observed non-compliance not already identified above? If "No" describe.

Yes

39. Are permit requirements satisfied with existing control measure(s)? If "No" describe additional control measures needed.

Yes

40. Additional information:

41. Date inspection completed.

12/18/2023

42. Time inspection completed.

1000

43. Select inspector name.

Knight, Jacob

44. Signature/Name
I confirm the information as recorded is true, accurate and complete.

45.

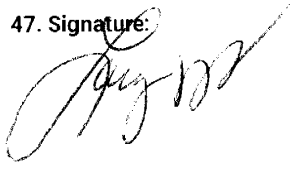
Certification Statement

"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, e.g., FOD, Ops Mgr, EPC Group or Team Leader)

46. Print name and title:

MARK VELASQUEZ GROUP LEADER

47. Signature:



MSGP Record Print - Non-Employee Related Questionnaire (Clone)

Questionnaire

Details

Date Of Response *	01/24/2024	**Questionnaire** *	MSGP RFI TA-60-0001 Heavy Equipment Yard (MSGP FAC TA-60-1 HEY)
Source	Environment Inspection/Survey Program	**QRHId**	1126
Location	TA-60-0001 Heavy Equipment Yard(MSGP-0006)	**Source Id**	MSGP 2024 TA60-1 HEY
Created By	Lutz, Timothy (368093)		
Created by, used for transfer to EDRMS	Lutz, Timothy		

Responses

1. Describe the weather at time of inspection and document the temperature (F).

43 degrees with sleet/snow

2.

WITHIN THE FACILITY BOUNDARY

3. Is the facility free of previously unidentified discharges from and/or pollutants that have occurred since the last inspection? If No, describe.

- Yes

4. Has a CAR been previously initiated for discharge identified in the previous question?

- N/A

5. Is the facility free of discharge of pollutants at the time of inspection? If No, describe.

- Yes

6. Is the facility free of evidence of, or the potential for, pollutants entering the drainage system. If No, describe.

Yes

7.

OUTFALL INSPECTION (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant question comment).

8. Monitored Outfall 022: Is the outfall free of evidence of erosion; free of evidence of pollutants in discharges and/or Receiving Water; AND free of any unauthorized non-stormwater discharges?

Yes

9. Monitored Outfall 022: Are flow dissipation devices operating effectively?

Yes

10. Substantially Identical Discharge Point 021: Is the outfall free of evidence of erosion; free of evidence of pollutants in discharges and/or Receiving Water; AND free of any unauthorized non-stormwater discharges?

Yes

11. Substantially Identical Discharge Point 021: Are flow dissipation devices operating effectively?

Yes

12. Substantially Identical Discharge Point 023: Is the outfall free of evidence of erosion; free of evidence of pollutants in discharges and/or Receiving Water; AND free of any unauthorized non-stormwater discharges?

Yes

13. Substantially Identical Discharge Point 023: Are flow dissipation devices operating effectively?

Yes

14. Substantially Identical Discharge Point 024: Are flow dissipation devices operating effectively?

- Yes

15. Substantially Identical Discharge Point 024: Is the outfall free of evidence of erosion; free of evidence of pollutants in discharges and/or Receiving Water; AND free of any unauthorized non-stormwater discharges?

- Yes

16. Substantially Identical Discharge Point 025: Is the outfall free of evidence of erosion; free of evidence of pollutants in discharges and/or Receiving Water; AND free of any unauthorized non-stormwater discharges?

- Yes

17. Substantially Identical Discharge Point 025: Are flow dissipation devices operating effectively?

- Yes

18.

CONTROL MEASURES

19. Select control measures inspected. (Identify needed maintenance, repairs, failed control measures that need replacement, or description of corrective action in text box below.)

- Asphalt Berm 6000403040027
- Asphalt Berm 6000403040028
- Asphalt Berm 6000403040029
- Asphalt Berm 6000403040047
- Concrete/Asphalt Channel/Swale 6000404020031
- Concrete/Asphalt Channel/Swale 6000404020032
- Drop Inlet with Filters 6000409020096
- Drop Inlet with Petro-Plug 6000409010100
- Earthen Channel/Swale 6000404010033
- Earthen Channel/Swale 6000404010034
- Eco-Block 6000403110060
- Gabion 6000407010035
- Gabion 6000407010036
- Gabion 6000407010037

Gabion 6000407010038
Gabion Swale 6000404090042
Gravel Bags 6000403100061
Gravel Bags 6000403100095
Gravel Bags 6000403100101
Gravel Bags 6000403100146
Gravel Mulch 6000401050097
Heavy Metal Filter Sock 6000403210127
Heavy Metal Filter Sock 6000403210128
Heavy Metal Filter Sock 6000403210129
Heavy Metal Filter Sock 6000403210130
Heavy Metal Filter Sock 6000403210131
Heavy Metal Filter Sock 6000403210132
Heavy Metal Filter Sock 6000403210133
Heavy Metal Filter Sock 6000403210134
Heavy Metal Filter Sock 6000403210135
Heavy Metal Filter Sock 6000403210136
Heavy Metal Filter Sock 6000403210137
Heavy Metal Filter Sock 6000403210138
Heavy Metal Filter Sock 6000403210139
Heavy Metal Filter Sock 6000403210140
Heavy Metal Filter Sock 6000403210141
Heavy Metal Filter Sock 6000403210148
Heavy Metal Filter Sock 6000403210149
Riprap 6000404060002
Riprap 6000404060039
Rock Channel/Swale 6000404030023
Rock Channel/Swale 6000404030043
Rock Channel/Swale 6000404030073
Rock Check Dam 6000406010010
Rock Check Dam 6000406010011
Rock Check Dam 6000406010012
Rock Check Dam 6000406010013
Rock Check Dam 6000406010014
Rock Check Dam 6000406010015
Rock Check Dam 6000406010016
Rock Check Dam 6000406010017
Rock Check Dam 6000406010018
Rock Check Dam 6000406010019
Rock Check Dam 6000406010020
Rock Check Dam 6000406010021
Rock Check Dam 6000406010022
Rock Check Dam 6000406010052
Rock Check Dam 6000406010053
Rock Check Dam 6000406010054
Rock Check Dam 6000406010055
Rock Check Dam 6000406010056
Rock Check Dam 6000406010057
Rock Check Dam 6000406010058
Rock Check Dam 6000406010074
Rock Check Dam 6000406010075
Rock Check Dam 6000406010076
Rock Check Dam 6000406010077
Rock Check Dam 6000406010098

- Rock Check Dam 6000406010099
- Sediment Trap 6000405010145
- Straw Wattle 6000403060147
- Trench Drain 6000409040046
- TRM-Lined Swale 6000404080142
- TRM-Lined Swale 6000404080143
- TRM-Lined Swale 6000404080144

Many of storm water controls under snow.

20.

AREA/ACTIVITY EXPOSED TO STORMWATER (identify needed maintenance or a description of corrective actions in relevant question comment).

21. Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.

- Yes

22. Transfer areas for substances in bulk: controls adequate (appropriate, effective, and operating)? If "No" describe.

- Yes

Product being checked into facility had a tarp over it because it was snowing.

23. Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe.

- Yes

24. Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe.

- Yes

25. Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.

- Yes

26. Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If No, describe.

- Yes

27. Fueling areas: controls adequate (appropriate, effective, and operating)? If No, describe.

- Yes

Fuel mats being used correctly.

28. Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If No, describe.

- Yes

29. Machinery: controls adequate (appropriate, effective, and operating)? If No, describe.

- Yes

30. Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If No, describe.

- Yes

31. Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If No, describe.

- Yes

32. Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If No, describe.

- Yes

33. Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If No, describe.

- N/A

34. Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If No, describe.

- Yes

35. Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If No, describe.

- No

See CA #2355. Accumulated trash and pieces of cardboard in corner of yard from clearing snow. Also, boxes marked "Commercial Grade Truck Equipment" are deteriorated and falling apart.

36. Leaks and spills: controls adequate (appropriate, effective, and operating)? If No, describe.

- No

See CA# 2354. January 24, 2024, at approximately 1:30PM, small oil release (approximately 1 cup) was discovered on west side of TA-60-0001 (parking area outside main building entrance). Vehicle was no longer present at time of discovery.

37. Sector AA: Fabricated metal products: controls adequate (appropriate, effective, and operating)? If No, describe.

- Yes

38. Free of incidents of observed non-compliance not already identified above? If "No" describe.

- Yes

39. Are permit requirements satisfied with existing control measure(s)? If "No" describe additional control measures needed.

- Yes

40. Additional information:

41. Date inspection completed.

01/24/2024

42. Time inspection completed.

1400

43. Select inspector name.

Lutz, Timothy

44. Signature/Name
I confirm the information as recorded is true, accurate and complete.

45.

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, e.g., FOD, Ops Mgr, EPC Group or Team Leader)

46. Print name and title:

LARRY VELASQUEZ, OMS GROUP LEADER

47. Signature:

48. Date:

2/6/2024

Go To Top

Documents

View Documents for this Questionnaire

Non-Employee Related Questionnaire ⓘ

Questionnaire

Details

Date Of Response *	02/22/2024	**Questionnaire** *	MSGP RFI TA-60-0001 Heavy Equipment Yard (MSGP FAC TA-60-1 HEY)
Source	Environment Inspection/Survey Program	**Source Id**	MSGP 2024 TA60-1 HEY
In Progress			
Total Score			

Employee Work Demographic

Responses

1. Describe the weather at time of inspection and document the temperature (F).

40 degrees, sunny

2.

WITHIN THE FACILITY BOUNDARY

3. Is the facility free of previously unidentified discharges from and/or pollutants that have occurred since the last inspection? If No, describe.

- Yes

4. Has a CAR been previously initiated for discharge identified in the previous question?

- N/A

5. Is the facility free of discharge of pollutants at the time of inspection? If No, describe.

- Yes

6. Is the facility free of evidence of, or the potential for, pollutants entering the drainage system. If No, describe.

Yes

7.

OUTFALL INSPECTION (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant question comment).

8. Monitored Outfall 022: Is the outfall free of evidence of erosion; free of evidence of pollutants in discharges and/or Receiving Water; AND free of any unauthorized non-stormwater discharges?

Yes

9. Monitored Outfall 022: Are flow dissipation devices operating effectively?

Yes

10. Substantially Identical Discharge Point 021: Is the outfall free of evidence of erosion; free of evidence of pollutants in discharges and/or Receiving Water; AND free of any unauthorized non-stormwater discharges?

Yes

11. Substantially Identical Discharge Point 021: Are flow dissipation devices operating effectively?

Yes

12. Substantially Identical Discharge Point 023: Is the outfall free of evidence of erosion; free of evidence of pollutants in discharges and/or Receiving Water; AND free of any unauthorized non-stormwater discharges?

Yes

13. Substantially Identical Discharge Point 023: Are flow dissipation devices operating effectively?

Yes

14. Substantially Identical Discharge Point 024: Are flow dissipation devices operating effectively?

- Yes

15. Substantially Identical Discharge Point 024: Is the outfall free of evidence of erosion; free of evidence of pollutants in discharges and/or Receiving Water; AND free of any unauthorized non-stormwater discharges?

- Yes

16. Substantially Identical Discharge Point 025: Is the outfall free of evidence of erosion; free of evidence of pollutants in discharges and/or Receiving Water; AND free of any unauthorized non-stormwater discharges?

- Yes

17. Substantially Identical Discharge Point 025: Are flow dissipation devices operating effectively?

- Yes

18.

CONTROL MEASURES

19. Select control measures inspected. (Identify needed maintenance, repairs, failed control measures that need replacement, or description of corrective action in text box below.)

- Asphalt Berm 6000403040027
- Asphalt Berm 6000403040028
- Asphalt Berm 6000403040029
- Asphalt Berm 6000403040047
- Concrete/Asphalt Channel/Swale 6000404020031
- Concrete/Asphalt Channel/Swale 6000404020032
- Drop Inlet with Filters 6000409020096
- Drop Inlet with Petro-Plug 6000409010100
- Earthen Channel/Swale 6000404010033
- Earthen Channel/Swale 6000404010034
- Eco-Block 6000403110060
- Gabion 6000407010035
- Gabion 6000407010036
- Gabion 6000407010037

Gabion 6000407010038
Gabion Swale 6000404090042
Gravel Bags 6000403100061
Gravel Bags 6000403100095
Gravel Bags 6000403100101
Gravel Bags 6000403100146
Gravel Mulch 6000401050097
Heavy Metal Filter Sock 6000403210127
Heavy Metal Filter Sock 6000403210128
Heavy Metal Filter Sock 6000403210129
Heavy Metal Filter Sock 6000403210130
Heavy Metal Filter Sock 6000403210131
Heavy Metal Filter Sock 6000403210132
Heavy Metal Filter Sock 6000403210133
Heavy Metal Filter Sock 6000403210134
Heavy Metal Filter Sock 6000403210135
Heavy Metal Filter Sock 6000403210136
Heavy Metal Filter Sock 6000403210137
Heavy Metal Filter Sock 6000403210138
Heavy Metal Filter Sock 6000403210139
Heavy Metal Filter Sock 6000403210140
Heavy Metal Filter Sock 6000403210141
Heavy Metal Filter Sock 6000403210148
Heavy Metal Filter Sock 6000403210149
Riprap 6000404060002
Riprap 6000404060039
Rock Channel/Swale 6000404030023
Rock Channel/Swale 6000404030043
Rock Channel/Swale 6000404030073
Rock Check Dam 6000406010010
Rock Check Dam 6000406010011
Rock Check Dam 6000406010012
Rock Check Dam 6000406010013
Rock Check Dam 6000406010014
Rock Check Dam 6000406010015
Rock Check Dam 6000406010016
Rock Check Dam 6000406010017
Rock Check Dam 6000406010018
Rock Check Dam 6000406010019
Rock Check Dam 6000406010020
Rock Check Dam 6000406010021
Rock Check Dam 6000406010022
Rock Check Dam 6000406010052
Rock Check Dam 6000406010053
Rock Check Dam 6000406010054
Rock Check Dam 6000406010055
Rock Check Dam 6000406010056
Rock Check Dam 6000406010057
Rock Check Dam 6000406010058
Rock Check Dam 6000406010074
Rock Check Dam 6000406010075
Rock Check Dam 6000406010076
Rock Check Dam 6000406010077
Rock Check Dam 6000406010098

- Rock Check Dam 6000406010099
- Sediment Trap 6000405010145
- Straw Wattle 6000403060147
- Trench Drain 6000409040046
- TRM-Lined Swale 6000404080142
- TRM-Lined Swale 6000404080143
- TRM-Lined Swale 6000404080144

Recommend replacement of filters in petro-barrier (control 6000409010100)

20.

AREA/ACTIVITY EXPOSED TO STORMWATER (identify needed maintenance or a description of corrective actions in relevant question comment).

21. Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.

- Yes

22. Transfer areas for substances in bulk: controls adequate (appropriate, effective, and operating)? If "No" describe.

- Yes

23. Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe.

- Yes

24. Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe.

- Yes

25. Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.

- Yes

26. Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If No, describe.

- Yes

27. Fueling areas: controls adequate (appropriate, effective, and operating)? If No, describe.

- Yes

Fuel mats being utilized

28. Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If No, describe.

- Yes

29. Machinery: controls adequate (appropriate, effective, and operating)? If No, describe.

- Yes

30. Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If No, describe.

- No

See CAR 2367. Tarps covering two roll-offs in lower yard had holes allowing storm water to contact material inside.

31. Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If No, describe.

- Yes

32. Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If No, describe.

- Yes

33. Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If No, describe.

- N/A

34. Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If No, describe.

Yes

35. Housekeeping (industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If No, describe.

No

See CARs 2363, 2364, 2365, 2366, and 2368. Equipment (automatic truck tarps and sirens/lights) stored outside in degraded cardboard boxes; aluminum brackets (belonging to CHAMP HVAC project) stored outside uncovered; kitty litter used on a spill not swept up; trash in storm water retention pond in upper yard; inoperable pumps stored outside uncovered next to storm water outlet.

36. Leaks and spills: controls adequate (appropriate, effective, and operating)? If No, describe.

Yes

37. Sector AA: Fabricated metal products: controls adequate (appropriate, effective, and operating)? If No, describe.

Yes

38. Free of incidents of observed non-compliance not already identified above? If "No" describe.

Yes

39. Are permit requirements satisfied with existing control measure(s)? If "No" describe additional control measures needed.

Yes

40. Additional information:

41. Date inspection completed.

02/22/2024

42. Time inspection completed.

10:00AM

43. Select inspector name.

Lutz, Timothy

44. Signature/Name
I confirm the information as recorded is true, accurate and complete.

45.

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, e.g., FOD, Ops Mgr, EPC Group or Team Leader)

46. Print name and title:

LARRY VELOSQUEZ, GROUP LEADER

47. Signature:

48. Date:

2/29/2024

Go To Top

MSGP Record Print - Non-Employee Related Questionnaire (Clone)

Questionnaire

Details

Date Of Response *	03/18/2024	**Questionnaire** *	MSGP RFI TA-60-0001 Heavy Equipment Yard (MSGP FAC TA-60-1 HEY)
Source	Environment Inspection/Survey Program	**QRHId**	1433
Location	TA-60-0001 Heavy Equipment Yard(MSGP-0006)	**Source Id**	MSGP 2024 TA60-1 HEY
Created By	Lutz, Timothy (368093)		
Created by, used for transfer to EDRMS	Lutz, Timothy		

Responses

1. Describe the weather at time of inspection and document the temperature (F).

42 degrees. Partly Cloudy.

2.

WITHIN THE FACILITY BOUNDARY

3. Is the facility free of previously unidentified discharges from and/or pollutants that have occurred since the last inspection? If No, describe.

- Yes

4. Has a CAR been previously initiated for discharge identified in the previous question?

- N/A

5. Is the facility free of discharge of pollutants at the time of inspection? If No, describe.

- Yes

6. Is the facility free of evidence of, or the potential for, pollutants entering the drainage system. If No, describe.

Yes

7.

OUTFALL INSPECTION (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant question comment).

8. Monitored Outfall 022: Is the outfall free of evidence of erosion; free of evidence of pollutants in discharges and/or Receiving Water; AND free of any unauthorized non-stormwater discharges?

Yes

9. Monitored Outfall 022: Are flow dissipation devices operating effectively?

Yes

10. Substantially Identical Discharge Point 021: Is the outfall free of evidence of erosion; free of evidence of pollutants in discharges and/or Receiving Water; AND free of any unauthorized non-stormwater discharges?

Yes

11. Substantially Identical Discharge Point 021: Are flow dissipation devices operating effectively?

Yes

12. Substantially Identical Discharge Point 023: Is the outfall free of evidence of erosion; free of evidence of pollutants in discharges and/or Receiving Water; AND free of any unauthorized non-stormwater discharges?

Yes

13. Substantially Identical Discharge Point 023: Are flow dissipation devices operating effectively?

Yes

14. Substantially Identical Discharge Point 024: Are flow dissipation devices operating effectively?

- Yes

15. Substantially Identical Discharge Point 024: Is the outfall free of evidence of erosion; free of evidence of pollutants in discharges and/or Receiving Water; AND free of any unauthorized non-stormwater discharges?

- Yes

Snow melt from pervious Friday's snow storm entering discharge point. No evidence of pollutants.

16. Substantially Identical Discharge Point 025: Is the outfall free of evidence of erosion; free of evidence of pollutants in discharges and/or Receiving Water; AND free of any unauthorized non-stormwater discharges?

- Yes

17. Substantially Identical Discharge Point 025: Are flow dissipation devices operating effectively?

- Yes

18.

CONTROL MEASURES

19. Select control measures inspected. (Identify needed maintenance, repairs, failed control measures that need replacement, or description of corrective action in text box below.)

- Asphalt Berm 6000403040027
- Asphalt Berm 6000403040028
- Asphalt Berm 6000403040029
- Asphalt Berm 6000403040047
- Concrete/Asphalt Channel/Swale 6000404020031
- Concrete/Asphalt Channel/Swale 6000404020032
- Drop Inlet with Filters 6000409020096
- Drop Inlet with Petro-Plug 6000409010100
- Earthen Channel/Swale 6000404010033
- Earthen Channel/Swale 6000404010034
- Eco-Block 6000403110060
- Gabion 6000407010035

Gabion 6000407010036
Gabion 6000407010037
Gabion 6000407010038
Gabion Swale 6000404090042
Gravel Bags 6000403100061
Gravel Bags 6000403100095
Gravel Bags 6000403100101
Gravel Bags 6000403100146
Gravel Mulch 6000401050097
Heavy Metal Filter Sock 6000403210127
Heavy Metal Filter Sock 6000403210128
Heavy Metal Filter Sock 6000403210129
Heavy Metal Filter Sock 6000403210130
Heavy Metal Filter Sock 6000403210131
Heavy Metal Filter Sock 6000403210132
Heavy Metal Filter Sock 6000403210133
Heavy Metal Filter Sock 6000403210134
Heavy Metal Filter Sock 6000403210135
Heavy Metal Filter Sock 6000403210136
Heavy Metal Filter Sock 6000403210137
Heavy Metal Filter Sock 6000403210138
Heavy Metal Filter Sock 6000403210139
Heavy Metal Filter Sock 6000403210140
Heavy Metal Filter Sock 6000403210141
Heavy Metal Filter Sock 6000403210148
Heavy Metal Filter Sock 6000403210149
Riprap 6000404060002
Riprap 6000404060039
Rock Channel/Swale 6000404030023
Rock Channel/Swale 6000404030043
Rock Channel/Swale 6000404030073
Rock Check Dam 6000406010010
Rock Check Dam 6000406010011
Rock Check Dam 6000406010012
Rock Check Dam 6000406010013
Rock Check Dam 6000406010014
Rock Check Dam 6000406010015
Rock Check Dam 6000406010016
Rock Check Dam 6000406010017
Rock Check Dam 6000406010018
Rock Check Dam 6000406010019
Rock Check Dam 6000406010020
Rock Check Dam 6000406010021
Rock Check Dam 6000406010022
Rock Check Dam 6000406010052
Rock Check Dam 6000406010053
Rock Check Dam 6000406010054
Rock Check Dam 6000406010055
Rock Check Dam 6000406010056
Rock Check Dam 6000406010057
Rock Check Dam 6000406010058
Rock Check Dam 6000406010074
Rock Check Dam 6000406010075
Rock Check Dam 6000406010076

- Rock Check Dam 6000406010077
- Rock Check Dam 6000406010098
- Rock Check Dam 6000406010099
- Sediment Trap 6000405010145
- Straw Wattle 6000403060147
- Trench Drain 6000409040046
- TRM-Lined Swale 6000404080142
- TRM-Lined Swale 6000404080143
- TRM-Lined Swale 6000404080144

20.

AREA/ACTIVITY EXPOSED TO STORMWATER (identify needed maintenance or a description of corrective actions in relevant question comment).

21. Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.

- Yes

22. Transfer areas for substances in bulk: controls adequate (appropriate, effective, and operating)? If "No" describe.

- Yes

23. Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe.

- Yes

24. Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe.

- Yes

25. Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.

- Yes

26. Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If No, describe.

- Yes

27. Fueling areas: controls adequate (appropriate, effective, and operating)? If No, describe.

- Yes

Fuel mats being utilized correctly.

28. Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If No, describe.

- Yes

29. Machinery: controls adequate (appropriate, effective, and operating)? If No, describe.

- Yes

30. Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If No, describe.

- Yes

31. Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If No, describe.

- Yes

32. Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If No, describe.

- Yes

33. Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If No, describe.

- N/A

34. Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If No, describe.

Yes

35. Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If No, describe.

No

See CAR 2380. Product stored outside in cardboard boxes stored outside. Cardboard is deteriorating. Store in covered area or cover with tarp. See CAR#2381. Carts containing metal and cardboard stored outside and uncovered. Empty carts at end of each day or cover if material left inside carts overnight.

36. Leaks and spills: controls adequate (appropriate, effective, and operating)? If No, describe.

Yes

37. Sector AA: Fabricated metal products: controls adequate (appropriate, effective, and operating)? If No, describe.

Yes

38. Free of incidents of observed non-compliance not already identified above? If "No" describe.

Yes

39. Are permit requirements satisfied with existing control measure(s)? If "No" describe additional control measures needed.

Yes

40. Additional information:

41. Date inspection completed.

03/18/2024

42. Time inspection completed.

1:00PM

43. Select inspector name.

Lutz, Timothy

44. Signature/Name
I confirm the information as recorded is true, accurate and complete.

45.

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, e.g., FOD, Ops Mgr, EPC Group or Team Leader)

46. Print name and title:

LARRY VELASQUEZ LOGISTICS

47. Signature:

48. Date:

4/3/2024

Go To Top

Documents

View Documents for this Questionnaire

Description	Document Type	Document Date

MSGP Record Print - Non-Employee Related Questionnaire (Clone)

Questionnaire

Details

Date Of Response *	04/16/2024	**Questionnaire** *	MSGP RFI TA-60-0001 Heavy Equipment Yard (MSGP FAC TA-60-1 HEY)
Source	Environment Inspection/Survey Program	**QRHId**	1606
Location	TA-60-0001 Heavy Equipment Yard(MSGP-0006)	**Source Id**	MSGP 2024 TA60-1 HEY
Created By	Lutz, Timothy (368093)		
Created by, used for transfer to EDRMS	Lutz, Timothy		

Responses

1. Describe the weather at time of inspection and document the temperature (F).

57 degrees. Sunny.

2.

WITHIN THE FACILITY BOUNDARY

3. Is the facility free of previously unidentified discharges from and/or pollutants that have occurred since the last inspection? If No, describe.

- Yes

4. Has a CAR been previously initiated for discharge identified in the previous question?

- N/A

5. Is the facility free of discharge of pollutants at the time of inspection? If No, describe.

- Yes

6. Is the facility free of evidence of, or the potential for, pollutants entering the drainage system. If No, describe.

Yes

7.

OUTFALL INSPECTION (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant question comment).

8. Monitored Outfall 022: Is the outfall free of evidence of erosion; free of evidence of pollutants in discharges and/or Receiving Water; AND free of any unauthorized non-stormwater discharges?

Yes

9. Monitored Outfall 022: Are flow dissipation devices operating effectively?

Yes

10. Substantially Identical Discharge Point 021: Is the outfall free of evidence of erosion; free of evidence of pollutants in discharges and/or Receiving Water; AND free of any unauthorized non-stormwater discharges?

Yes

11. Substantially Identical Discharge Point 021: Are flow dissipation devices operating effectively?

Yes

12. Substantially Identical Discharge Point 023: Is the outfall free of evidence of erosion; free of evidence of pollutants in discharges and/or Receiving Water; AND free of any unauthorized non-stormwater discharges?

Yes

13. Substantially Identical Discharge Point 023: Are flow dissipation devices operating effectively?

Yes

14. Substantially Identical Discharge Point 024: Are flow dissipation devices operating effectively?

- Yes

15. Substantially Identical Discharge Point 024: Is the outfall free of evidence of erosion; free of evidence of pollutants in discharges and/or Receiving Water; AND free of any unauthorized non-stormwater discharges?

- Yes

16. Substantially Identical Discharge Point 025: Is the outfall free of evidence of erosion; free of evidence of pollutants in discharges and/or Receiving Water; AND free of any unauthorized non-stormwater discharges?

- Yes

17. Substantially Identical Discharge Point 025: Are flow dissipation devices operating effectively?

- Yes

18.

CONTROL MEASURES

19. Select control measures inspected. (Identify needed maintenance, repairs, failed control measures that need replacement, or description of corrective action in text box below.)

- Asphalt Berm 6000403040027
- Asphalt Berm 6000403040028
- Asphalt Berm 6000403040029
- Asphalt Berm 6000403040047
- Concrete/Asphalt Channel/Swale 6000404020031
- Concrete/Asphalt Channel/Swale 6000404020032
- Drop Inlet with Filters 6000409020096
- Drop Inlet with Petro-Plug 6000409010100
- Earthen Channel/Swale 6000404010033
- Earthen Channel/Swale 6000404010034
- Eco-Block 6000403110060
- Gabion 6000407010035
- Gabion 6000407010036
- Gabion 6000407010037

Gabion 6000407010038
Gabion Swale 6000404090042
Gravel Bags 6000403100061
Gravel Bags 6000403100095
Gravel Bags 6000403100101
Gravel Bags 6000403100146
Gravel Mulch 6000401050097
Heavy Metal Filter Sock 6000403210127
Heavy Metal Filter Sock 6000403210128
Heavy Metal Filter Sock 6000403210129
Heavy Metal Filter Sock 6000403210130
Heavy Metal Filter Sock 6000403210131
Heavy Metal Filter Sock 6000403210132
Heavy Metal Filter Sock 6000403210133
Heavy Metal Filter Sock 6000403210134
Heavy Metal Filter Sock 6000403210135
Heavy Metal Filter Sock 6000403210136
Heavy Metal Filter Sock 6000403210137
Heavy Metal Filter Sock 6000403210138
Heavy Metal Filter Sock 6000403210139
Heavy Metal Filter Sock 6000403210140
Heavy Metal Filter Sock 6000403210141
Heavy Metal Filter Sock 6000403210148
Heavy Metal Filter Sock 6000403210149
Riprap 6000404060002
Riprap 6000404060039
Rock Channel/Swale 6000404030023
Rock Channel/Swale 6000404030043
Rock Channel/Swale 6000404030073
Rock Check Dam 6000406010010
Rock Check Dam 6000406010011
Rock Check Dam 6000406010012
Rock Check Dam 6000406010013
Rock Check Dam 6000406010014
Rock Check Dam 6000406010015
Rock Check Dam 6000406010016
Rock Check Dam 6000406010017
Rock Check Dam 6000406010018
Rock Check Dam 6000406010019
Rock Check Dam 6000406010020
Rock Check Dam 6000406010021
Rock Check Dam 6000406010022
Rock Check Dam 6000406010052
Rock Check Dam 6000406010053
Rock Check Dam 6000406010054
Rock Check Dam 6000406010055
Rock Check Dam 6000406010056
Rock Check Dam 6000406010057
Rock Check Dam 6000406010058
Rock Check Dam 6000406010074
Rock Check Dam 6000406010075
Rock Check Dam 6000406010076
Rock Check Dam 6000406010077
Rock Check Dam 6000406010098

- Rock Check Dam 6000406010099
- Sediment Trap 6000405010145
- Straw Wattle 6000403060147
- Trench Drain 6000409040046
- TRM-Lined Swale 6000404080142
- TRM-Lined Swale 6000404080143
- TRM-Lined Swale 6000404080144

Metal socks 6000403210128, 6000403210139, and 6000403219140 are overdue for replacement. See CAR 2387.

20.

AREA/ACTIVITY EXPOSED TO STORMWATER (identify needed maintenance or a description of corrective actions in relevant question comment).

21. Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.

- Yes

22. Transfer areas for substances in bulk: controls adequate (appropriate, effective, and operating)? If "No" describe.

- Yes

23. Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe.

- Yes

24. Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe.

- Yes

25. Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.

- Yes

26. Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If No, describe.

Yes

27. Fueling areas: controls adequate (appropriate, effective, and operating)? If No, describe.

Yes

28. Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If No, describe.

Yes

29. Machinery: controls adequate (appropriate, effective, and operating)? If No, describe.

Yes

30. Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If No, describe.

Yes

31. Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If No, describe.

Yes

32. Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If No, describe.

Yes

33. Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If No, describe.

N/A

34. Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If No, describe.

Yes

35. Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If No, describe.

No

Trash/debris at several locations at facility. Rags in Outfall 24. Trash in storm water pond.

36. Leaks and spills: controls adequate (appropriate, effective, and operating)? If No, describe.

Yes

37. Sector AA: Fabricated metal products: controls adequate (appropriate, effective, and operating)? If No, describe.

Yes

38. Free of incidents of observed non-compliance not already identified above? If "No" describe.

Yes

39. Are permit requirements satisfied with existing control measure(s)? If "No" describe additional control measures needed.

Yes

40. Additional information:

41. Date inspection completed.

04/16/2024

42. Time inspection completed.

1:00PM

43. Select inspector name.

44. Signature/Name
I confirm the information as recorded is true, accurate and complete.

45.

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, e.g., FOD, Ops Mgr, EPC Group or Team Leader)

46. Print name and title:
LARRY VELASQUEZ

47. Signature:

48. Date:
4/25/2024

Go To Top

Documents

View Documents for this Questionnaire

Description	Document Type	Document Date

Non-Employee Related Questionnaire

Questionnaire

Details

Date Of Response *	05/21/2024	**Questionnaire** *	MSGP RFI TA-60-0001 Heavy Equipment Yard (MSGP FAC TA-60-1 HEY)
Source	Environment Inspection/Survey Program	**Source Id**	MSGP 2024 TA60-1 HEY
In Progress			
Total Score			

Employee Work Demographic

Responses

1. Describe the weather at time of inspection and document the temperature (F).

70 degrees, sunny

2.

WITHIN THE FACILITY BOUNDARY

3. Is the facility free of previously unidentified discharges from and/or pollutants that have occurred since the last inspection? If No, describe.

- Yes

4. Has a CAR been previously initiated for discharge identified in the previous question?

- N/A

5. Is the facility free of discharge of pollutants at the time of inspection? If No, describe.

- Yes

6. Is the facility free of evidence of, or the potential for, pollutants entering the drainage system. If No, describe.

Yes

7.

OUTFALL INSPECTION (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant question comment).

8. Monitored Outfall 022: Is the outfall free of evidence of erosion; free of evidence of pollutants in discharges and/or Receiving Water; AND free of any unauthorized non-stormwater discharges?

Yes

9. Monitored Outfall 022: Are flow dissipation devices operating effectively?

Yes

10. Substantially Identical Discharge Point 021: Is the outfall free of evidence of erosion; free of evidence of pollutants in discharges and/or Receiving Water; AND free of any unauthorized non-stormwater discharges?

Yes

11. Substantially Identical Discharge Point 021: Are flow dissipation devices operating effectively?

Yes

12. Substantially Identical Discharge Point 023: Is the outfall free of evidence of erosion; free of evidence of pollutants in discharges and/or Receiving Water; AND free of any unauthorized non-stormwater discharges?

Yes

13. Substantially Identical Discharge Point 023: Are flow dissipation devices operating effectively?

Yes

14. Substantially Identical Discharge Point 024: Are flow dissipation devices operating effectively?

- Yes

15. Substantially Identical Discharge Point 024: Is the outfall free of evidence of erosion; free of evidence of pollutants in discharges and/or Receiving Water; AND free of any unauthorized non-stormwater discharges?

- Yes

16. Substantially Identical Discharge Point 025: Is the outfall free of evidence of erosion; free of evidence of pollutants in discharges and/or Receiving Water; AND free of any unauthorized non-stormwater discharges?

- Yes

17. Substantially Identical Discharge Point 025: Are flow dissipation devices operating effectively?

- Yes

18.

CONTROL MEASURES

19. Select control measures inspected. (Identify needed maintenance, repairs, failed control measures that need replacement, or description of corrective action in text box below.)

- Asphalt Berm 6000403040027
- Asphalt Berm 6000403040028
- Asphalt Berm 6000403040029
- Asphalt Berm 6000403040047
- Concrete/Asphalt Channel/Swale 6000404020031
- Concrete/Asphalt Channel/Swale 6000404020032
- Drop Inlet with Filters 6000409020096
- Drop Inlet with Petro-Plug 6000409010100
- Earthen Channel/Swale 6000404010033
- Earthen Channel/Swale 6000404010034
- Eco-Block 6000403110060
- Gabion 6000407010035
- Gabion 6000407010036
- Gabion 6000407010037

Gabion 6000407010038
Gabion Swale 6000404090042
Gravel Bags 6000403100061
Gravel Bags 6000403100095
Gravel Bags 6000403100101
Gravel Bags 6000403100146
Gravel Mulch 6000401050097
Heavy Metal Filter Sock 6000403210127
Heavy Metal Filter Sock 6000403210129
Heavy Metal Filter Sock 6000403210130
Heavy Metal Filter Sock 6000403210131
Heavy Metal Filter Sock 6000403210132
Heavy Metal Filter Sock 6000403210133
Heavy Metal Filter Sock 6000403210134
Heavy Metal Filter Sock 6000403210135
Heavy Metal Filter Sock 6000403210136
Heavy Metal Filter Sock 6000403210137
Heavy Metal Filter Sock 6000403210138
Heavy Metal Filter Sock 6000403210141
Heavy Metal Filter Sock 6000403210148
Heavy Metal Filter Sock 6000403210149
Heavy Metal Filter Sock 6000403210150
Heavy Metal Filter Sock 6000403210151
Heavy Metal Filter Sock 6000403210152
Riprap 6000404060002
Riprap 6000404060039
Rock Channel/Swale 6000404030023
Rock Channel/Swale 6000404030043
Rock Channel/Swale 6000404030073
Rock Check Dam 6000406010010
Rock Check Dam 6000406010011
Rock Check Dam 6000406010012
Rock Check Dam 6000406010013
Rock Check Dam 6000406010014
Rock Check Dam 6000406010015
Rock Check Dam 6000406010016
Rock Check Dam 6000406010017
Rock Check Dam 6000406010018
Rock Check Dam 6000406010019
Rock Check Dam 6000406010020
Rock Check Dam 6000406010021
Rock Check Dam 6000406010022
Rock Check Dam 6000406010052
Rock Check Dam 6000406010053
Rock Check Dam 6000406010054
Rock Check Dam 6000406010055
Rock Check Dam 6000406010056
Rock Check Dam 6000406010057
Rock Check Dam 6000406010058
Rock Check Dam 6000406010074
Rock Check Dam 6000406010075
Rock Check Dam 6000406010076
Rock Check Dam 6000406010077
Rock Check Dam 6000406010098

- Rock Check Dam 6000406010099
- Sediment Trap 6000405010145
- Straw Wattle 6000403060147
- Trench Drain 6000409040046
- TRM-Lined Swale 6000404080142
- TRM-Lined Swale 6000404080143
- TRM-Lined Swale 6000404080144

20.

AREA/ACTIVITY EXPOSED TO STORMWATER (identify needed maintenance or a description of corrective actions in relevant question comment).

21. Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.

- Yes

22. Transfer areas for substances in bulk: controls adequate (appropriate, effective, and operating)? If "No" describe.

- Yes

23. Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe.

- Yes

24. Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe.

- Yes

25. Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.

- Yes

26. Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If No, describe.

- Yes

27. Fueling areas: controls adequate (appropriate, effective, and operating)? If No, describe.

Yes

28. Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If No, describe.

Yes

29. Machinery: controls adequate (appropriate, effective, and operating)? If No, describe.

Yes

30. Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If No, describe.

Yes

31. Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If No, describe.

Yes

32. Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If No, describe.

Yes

33. Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If No, describe.

Yes

34. Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If No, describe.

Yes

35. Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If No, describe.

No

See CAR 2397 for trash in drainages and sediment Pond. See CAR 2398 for equipment with oil/antifreeze in tanks stored in lower yard.

36. Leaks and spills: controls adequate (appropriate, effective, and operating)? If No, describe.

Yes

37. Sector AA: Fabricated metal products: controls adequate (appropriate, effective, and operating)? If No, describe.

Yes

38. Free of incidents of observed non-compliance not already identified above? If "No" describe.

Yes

39. Are permit requirements satisfied with existing control measure(s)? If "No" describe additional control measures needed.

Yes

40. Additional information:

41. Date inspection completed.

05/21/2024

42. Time inspection completed.

1:00PM

43. Select inspector name.

Lutz, Timothy

44. Signature/Name

I confirm the information as recorded is true, accurate and complete.

45.

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, e.g., FOD, Ops Mgr, EPC Group or Team Leader)

46. Print name and title:

LARRY VELASQUEZ

47. Signature:

48. Date: 6/4/2024

Go To Top

MSGP Record Print - Non-Employee Related Questionnaire (Clone)

Questionnaire

Details

Date Of Response *	06/25/2024	**Questionnaire** *	MSGP RFI TA-60-0001 Heavy Equipment Yard (MSGP FAC TA-60-1 HEY)
Source	Environment Inspection/Survey Program	**QRHId**	2977
Location	TA-60-0001 Heavy Equipment Yard(MSGP-0006)	**Source Id**	MSGP 2024 TA60-1 HEY
Created By	Lutz, Timothy (368093)		

Responses

1. Describe the weather at time of inspection and document the temperature (F).

80 degrees and sunny

2.

WITHIN THE FACILITY BOUNDARY

3. Is the facility free of previously unidentified discharges from and/or pollutants that have occurred since the last inspection? If No, describe.

- Yes

4. Has a CAR been previously initiated for discharge identified in the previous question?

- N/A

5. Is the facility free of discharge of pollutants at the time of inspection? If No, describe.

- Yes

6. Is the facility free of evidence of, or the potential for, pollutants entering the drainage system. If No, describe.

Yes

7.

OUTFALL INSPECTION (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant question comment).

8. Monitored Outfall 022: Is the outfall free of evidence of erosion; free of evidence of pollutants in discharges and/or Receiving Water; AND free of any unauthorized non-stormwater discharges?

Yes

9. Monitored Outfall 022: Are flow dissipation devices operating effectively?

Yes

10. Substantially Identical Discharge Point 021: Is the outfall free of evidence of erosion; free of evidence of pollutants in discharges and/or Receiving Water; AND free of any unauthorized non-stormwater discharges?

Yes

11. Substantially Identical Discharge Point 021: Are flow dissipation devices operating effectively?

Yes

12. Substantially Identical Discharge Point 023: Is the outfall free of evidence of erosion; free of evidence of pollutants in discharges and/or Receiving Water; AND free of any unauthorized non-stormwater discharges?

Yes

13. Substantially Identical Discharge Point 023: Are flow dissipation devices operating effectively?

Yes

14. Substantially Identical Discharge Point 024: Are flow dissipation devices operating effectively?

- Yes

15. Substantially Identical Discharge Point 024: Is the outfall free of evidence of erosion; free of evidence of pollutants in discharges and/or Receiving Water; AND free of any unauthorized non-stormwater discharges?

- Yes

16. Substantially Identical Discharge Point 025: Is the outfall free of evidence of erosion; free of evidence of pollutants in discharges and/or Receiving Water; AND free of any unauthorized non-stormwater discharges?

- Yes

17. Substantially Identical Discharge Point 025: Are flow dissipation devices operating effectively?

- Yes

18.

CONTROL MEASURES

19. Select control measures inspected. (Identify needed maintenance, repairs, failed control measures that need replacement, or description of corrective action in text box below.)

- Asphalt Berm 6000403040027
- Asphalt Berm 6000403040028
- Asphalt Berm 6000403040029
- Asphalt Berm 6000403040047
- Concrete/Asphalt Channel/Swale 6000404020031
- Concrete/Asphalt Channel/Swale 6000404020032
- Drop Inlet with Filters 6000409020096
- Drop Inlet with Petro-Plug 6000409010100
- Earthen Channel/Swale 6000404010033
- Earthen Channel/Swale 6000404010034
- Eco-Block 6000403110060
- Gabion 6000407010035
- Gabion 6000407010036
- Gabion 6000407010037

Gabion 6000407010038
Gabion Swale 6000404090042
Gravel Bags 6000403100061
Gravel Bags 6000403100095
Gravel Bags 6000403100101
Gravel Bags 6000403100146
Gravel Mulch 6000401050097
Heavy Metal Filter Sock 6000403210127
Heavy Metal Filter Sock 6000403210129
Heavy Metal Filter Sock 6000403210130
Heavy Metal Filter Sock 6000403210131
Heavy Metal Filter Sock 6000403210132
Heavy Metal Filter Sock 6000403210133
Heavy Metal Filter Sock 6000403210134
Heavy Metal Filter Sock 6000403210135
Heavy Metal Filter Sock 6000403210136
Heavy Metal Filter Sock 6000403210137
Heavy Metal Filter Sock 6000403210138
Heavy Metal Filter Sock 6000403210141
Heavy Metal Filter Sock 6000403210148
Heavy Metal Filter Sock 6000403210149
Heavy Metal Filter Sock 6000403210150
Heavy Metal Filter Sock 6000403210151
Heavy Metal Filter Sock 6000403210152
Riprap 6000404060002
Riprap 6000404060039
Rock Channel/Swale 6000404030023
Rock Channel/Swale 6000404030043
Rock Channel/Swale 6000404030073
Rock Check Dam 6000406010010
Rock Check Dam 6000406010011
Rock Check Dam 6000406010012
Rock Check Dam 6000406010013
Rock Check Dam 6000406010014
Rock Check Dam 6000406010015
Rock Check Dam 6000406010016
Rock Check Dam 6000406010017
Rock Check Dam 6000406010018
Rock Check Dam 6000406010019
Rock Check Dam 6000406010020
Rock Check Dam 6000406010021
Rock Check Dam 6000406010022
Rock Check Dam 6000406010052
Rock Check Dam 6000406010053
Rock Check Dam 6000406010054
Rock Check Dam 6000406010055
Rock Check Dam 6000406010056
Rock Check Dam 6000406010057
Rock Check Dam 6000406010058
Rock Check Dam 6000406010074
Rock Check Dam 6000406010075
Rock Check Dam 6000406010076
Rock Check Dam 6000406010077
Rock Check Dam 6000406010098

- Rock Check Dam 6000406010099
- Sediment Trap 6000405010145
- Straw Wattle 6000403060147
- Trench Drain 6000409040046
- TRM-Lined Swale 6000404080142
- TRM-Lined Swale 6000404080143
- TRM-Lined Swale 6000404080144

20.

AREA/ACTIVITY EXPOSED TO STORMWATER (identify needed maintenance or a description of corrective actions in relevant question comment).

21. Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.

- Yes

22. Transfer areas for substances in bulk: controls adequate (appropriate, effective, and operating)? If "No" describe.

- Yes

23. Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe.

- Yes

24. Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe.

- Yes

25. Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.

- Yes

26. Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If No, describe.

- Yes

27. Fueling areas: controls adequate (appropriate, effective, and operating)? If No, describe.

Yes

28. Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If No, describe.

Yes

29. Machinery: controls adequate (appropriate, effective, and operating)? If No, describe.

Yes

30. Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If No, describe.

Yes

31. Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If No, describe.

Yes

32. Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If No, describe.

Yes

33. Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If No, describe.

Yes

34. Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If No, describe.

Yes

35. Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If No, describe.

- No

See CARs 2406 and 2407

36. Leaks and spills: controls adequate (appropriate, effective, and operating)? If No, describe.

- Yes

37. Sector AA: Fabricated metal products: controls adequate (appropriate, effective, and operating)? If No, describe.

- Yes

38. Free of incidents of observed non-compliance not already identified above? If "No" describe.

- Yes

39. Are permit requirements satisfied with existing control measure(s)? If "No" describe additional control measures needed.

- Yes

40. Additional information:

41. Date inspection completed.

06/25/2024

42. Time inspection completed.

10:00AM

43. Select inspector name.

Lutz, Timothy

44. Signature/Name

I confirm the information as recorded is true, accurate and complete.

45.

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, e.g., FOD, Ops Mgr, EPC Group or Team Leader)

46. Print name and title:

LARRY VELASQUEZ, GROUP LEADER

47. Signature:

48. Date:

7/11/2024

Go To Top

Documents

View Documents for this Questionnaire

Description	Document Type	Document Date

MSGP Record Print - Non-Employee Related Questionnaire (Clone)

Questionnaire

Details

Date Of Response *	07/24/2024	**Questionnaire** *	MSGP RFI TA-60-0001 Heavy Equipment Yard (MSGP FAC TA-60-1 HEY)
Source	Environment Inspection/Survey Program	**QRHId**	3162
Location	TA-60-0001 Heavy Equipment Yard(MSGP-0006)	**Source Id**	MSGP 2024 TA60-1 HEY
Created By	Lutz, Timothy (368093)		

Responses

1. Describe the weather at time of inspection and document the temperature (F).

75 degrees and sunny

2.

WITHIN THE FACILITY BOUNDARY

3. Is the facility free of previously unidentified discharges from and/or pollutants that have occurred since the last inspection? If No, describe.

- Yes

4. Has a CAR been previously initiated for discharge identified in the previous question?

- N/A

5. Is the facility free of discharge of pollutants at the time of inspection? If No, describe.

- Yes

6. Is the facility free of evidence of, or the potential for, pollutants entering the drainage system. If No, describe.

Yes

7.

OUTFALL INSPECTION (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant question comment).

8. Monitored Outfall 022: Is the outfall free of evidence of erosion; free of evidence of pollutants in discharges and/or Receiving Water; AND free of any unauthorized non-stormwater discharges?

Yes

9. Monitored Outfall 022: Are flow dissipation devices operating effectively?

Yes

10. Substantially Identical Discharge Point 021: Is the outfall free of evidence of erosion; free of evidence of pollutants in discharges and/or Receiving Water; AND free of any unauthorized non-stormwater discharges?

Yes

11. Substantially Identical Discharge Point 021: Are flow dissipation devices operating effectively?

Yes

12. Substantially Identical Discharge Point 023: Is the outfall free of evidence of erosion; free of evidence of pollutants in discharges and/or Receiving Water; AND free of any unauthorized non-stormwater discharges?

Yes

13. Substantially Identical Discharge Point 023: Are flow dissipation devices operating effectively?

Yes

14. Substantially Identical Discharge Point 024: Are flow dissipation devices operating effectively?

Yes

15. Substantially Identical Discharge Point 024: Is the outfall free of evidence of erosion; free of evidence of pollutants in discharges and/or Receiving Water; AND free of any unauthorized non-stormwater discharges?

Yes

16. Substantially Identical Discharge Point 025: Is the outfall free of evidence of erosion; free of evidence of pollutants in discharges and/or Receiving Water; AND free of any unauthorized non-stormwater discharges?

Yes

17. Substantially Identical Discharge Point 025: Are flow dissipation devices operating effectively?

Yes

18.

CONTROL MEASURES

19. Select control measures inspected. (Identify needed maintenance, repairs, failed control measures that need replacement, or description of corrective action in text box below.)

- Asphalt Berm 6000403040027
- Asphalt Berm 6000403040028
- Asphalt Berm 6000403040029
- Asphalt Berm 6000403040047
- Concrete/Asphalt Channel/Swale 6000404020031
- Concrete/Asphalt Channel/Swale 6000404020032
- Drop Inlet with Filters 6000409020096
- Drop Inlet with Petro-Plug 6000409010100
- Earthen Channel/Swale 6000404010033
- Earthen Channel/Swale 6000404010034
- Eco-Block 6000403110060
- Gabion 6000407010035
- Gabion 6000407010036
- Gabion 6000407010037

Gabion 6000407010038
Gabion Swale 6000404090042
Gravel Bags 6000403100061
Gravel Bags 6000403100095
Gravel Bags 6000403100101
Gravel Bags 6000403100146
Gravel Mulch 6000401050097
Heavy Metal Filter Sock 6000403210127
Heavy Metal Filter Sock 6000403210129
Heavy Metal Filter Sock 6000403210130
Heavy Metal Filter Sock 6000403210131
Heavy Metal Filter Sock 6000403210132
Heavy Metal Filter Sock 6000403210133
Heavy Metal Filter Sock 6000403210134
Heavy Metal Filter Sock 6000403210135
Heavy Metal Filter Sock 6000403210136
Heavy Metal Filter Sock 6000403210137
Heavy Metal Filter Sock 6000403210138
Heavy Metal Filter Sock 6000403210141
Heavy Metal Filter Sock 6000403210148
Heavy Metal Filter Sock 6000403210149
Heavy Metal Filter Sock 6000403210150
Heavy Metal Filter Sock 6000403210151
Heavy Metal Filter Sock 6000403210152
Riprap 6000404060002
Riprap 6000404060039
Rock Channel/Swale 6000404030023
Rock Channel/Swale 6000404030043
Rock Channel/Swale 6000404030073
Rock Check Dam 6000406010010
Rock Check Dam 6000406010011
Rock Check Dam 6000406010012
Rock Check Dam 6000406010013
Rock Check Dam 6000406010014
Rock Check Dam 6000406010015
Rock Check Dam 6000406010016
Rock Check Dam 6000406010017
Rock Check Dam 6000406010018
Rock Check Dam 6000406010019
Rock Check Dam 6000406010020
Rock Check Dam 6000406010021
Rock Check Dam 6000406010022
Rock Check Dam 6000406010052
Rock Check Dam 6000406010053
Rock Check Dam 6000406010054
Rock Check Dam 6000406010055
Rock Check Dam 6000406010056
Rock Check Dam 6000406010057
Rock Check Dam 6000406010058
Rock Check Dam 6000406010074
Rock Check Dam 6000406010075
Rock Check Dam 6000406010076
Rock Check Dam 6000406010077
Rock Check Dam 6000406010098

- Rock Check Dam 6000406010099
- Sediment Trap 6000405010145
- Straw Wattle 6000403060147
- Trench Drain 6000409040046
- TRM-Lined Swale 6000404080142
- TRM-Lined Swale 6000404080143
- TRM-Lined Swale 6000404080144

20.

AREA/ACTIVITY EXPOSED TO STORMWATER (identify needed maintenance or a description of corrective actions in relevant question comment).

21. Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.

- Yes

22. Transfer areas for substances in bulk: controls adequate (appropriate, effective, and operating)? If "No" describe.

- Yes

23. Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe.

- Yes

24. Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe.

- Yes

25. Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.

- Yes

26. Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If No, describe.

- Yes

27. Fueling areas: controls adequate (appropriate, effective, and operating)? If No, describe.

- Yes

28. Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If No, describe.

- Yes

29. Machinery: controls adequate (appropriate, effective, and operating)? If No, describe.

- Yes

30. Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If No, describe.

- Yes

31. Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If No, describe.

- Yes

32. Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If No, describe.

- Yes

33. Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If No, describe.

- Yes

34. Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If No, describe.

- Yes

35. Housekeeping (industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If No, describe.

Yes

36. Leaks and spills: controls adequate (appropriate, effective, and operating)? If No, describe.

Yes

37. Sector AA: Fabricated metal products: controls adequate (appropriate, effective, and operating)? If No, describe.

Yes

38. Free of incidents of observed non-compliance not already identified above? If "No" describe.

Yes

39. Are permit requirements satisfied with existing control measure(s)? If "No" describe additional control measures needed.

Yes

40. Additional information:

A hard, plastic cover has been placed over the scrap metal bin replacing tarps that were used.

41. Date inspection completed.

07/24/2024

42. Time inspection completed.

9:30AM

43. Select inspector name.

Lutz, Timothy

44. Signature/Name

I confirm the information as recorded is true, accurate and complete.

45.

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, e.g., FOD, Ops Mgr, EPC Group or Team Leader)

46. Print name and title:

LARRY VELASQUEZ, GROUP LEADER OMS

47. Signature:

48. Date:

8/13/2024

Go To Top

Documents

View Documents for this Questionnaire

Description	Document Type	Document Date

MSGP Record Print - Non-Employee Related Questionnaire (Clone)

Questionnaire

Details

Date Of Response *	08/21/2024	**Questionnaire** *	MSGP RFI TA-60-0001 Heavy Equipment Yard (MSGP FAC TA-60-1 HEY)
Source	Environment Inspection/Survey Program	**QRHId**	3463
Location	TA-60-0001 Heavy Equipment Yard(MSGP-0006)	**Source Id**	MSGP 2024 TA60-1 HEY
Created By	Lutz, Timothy (368093)		

Responses

1. Describe the weather at time of inspection and document the temperature (F).

83 degrees and sunny

2.

WITHIN THE FACILITY BOUNDARY

3. Is the facility free of previously unidentified discharges from and/or pollutants that have occurred since the last inspection? If No, describe.

- Yes

4. Has a CAR been previously initiated for discharge identified in the previous question?

- N/A

5. Is the facility free of discharge of pollutants at the time of inspection? If No, describe.

- Yes

6. Is the facility free of evidence of, or the potential for, pollutants entering the drainage system. If No, describe.

Yes

7.

OUTFALL INSPECTION (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant question comment).

8. Monitored Outfall 022: Is the outfall free of evidence of erosion; free of evidence of pollutants in discharges and/or Receiving Water; AND free of any unauthorized non-stormwater discharges?

Yes

9. Monitored Outfall 022: Are flow dissipation devices operating effectively?

Yes

10. Substantially Identical Discharge Point 021: Is the outfall free of evidence of erosion; free of evidence of pollutants in discharges and/or Receiving Water; AND free of any unauthorized non-stormwater discharges?

Yes

11. Substantially Identical Discharge Point 021: Are flow dissipation devices operating effectively?

Yes

12. Substantially Identical Discharge Point 023: Is the outfall free of evidence of erosion; free of evidence of pollutants in discharges and/or Receiving Water; AND free of any unauthorized non-stormwater discharges?

Yes

13. Substantially Identical Discharge Point 023: Are flow dissipation devices operating effectively?

Yes

14. Substantially Identical Discharge Point 024: Are flow dissipation devices operating effectively?

- Yes

15. Substantially Identical Discharge Point 024: Is the outfall free of evidence of erosion; free of evidence of pollutants in discharges and/or Receiving Water; AND free of any unauthorized non-stormwater discharges?

- Yes

16. Substantially Identical Discharge Point 025: Is the outfall free of evidence of erosion; free of evidence of pollutants in discharges and/or Receiving Water; AND free of any unauthorized non-stormwater discharges?

- Yes

17. Substantially Identical Discharge Point 025: Are flow dissipation devices operating effectively?

- Yes

18.

CONTROL MEASURES

19. Select control measures inspected. (Identify needed maintenance, repairs, failed control measures that need replacement, or description of corrective action in text box below.)

- Asphalt Berm 6000403040027
- Asphalt Berm 6000403040028
- Asphalt Berm 6000403040029
- Asphalt Berm 6000403040047
- Concrete/Asphalt Channel/Swale 6000404020031
- Concrete/Asphalt Channel/Swale 6000404020032
- Drop Inlet with Filters 6000409020096
- Drop Inlet with Petro-Plug 6000409010100
- Earthen Channel/Swale 6000404010033
- Earthen Channel/Swale 6000404010034
- Eco-Block 6000403110060
- Gabion 6000407010035
- Gabion 6000407010036
- Gabion 6000407010037

Gabion 6000407010038
Gabion Swale 6000404090042
Gravel Bags 6000403100061
Gravel Bags 6000403100095
Gravel Bags 6000403100101
Gravel Bags 6000403100146
Gravel Mulch 6000401050097
Heavy Metal Filter Sock 6000403210127
Heavy Metal Filter Sock 6000403210129
Heavy Metal Filter Sock 6000403210130
Heavy Metal Filter Sock 6000403210131
Heavy Metal Filter Sock 6000403210132
Heavy Metal Filter Sock 6000403210133
Heavy Metal Filter Sock 6000403210134
Heavy Metal Filter Sock 6000403210135
Heavy Metal Filter Sock 6000403210136
Heavy Metal Filter Sock 6000403210137
Heavy Metal Filter Sock 6000403210138
Heavy Metal Filter Sock 6000403210141
Heavy Metal Filter Sock 6000403210148
Heavy Metal Filter Sock 6000403210149
Heavy Metal Filter Sock 6000403210150
Heavy Metal Filter Sock 6000403210151
Heavy Metal Filter Sock 6000403210152
Riprap 6000404060002
Riprap 6000404060039
Rock Channel/Swale 6000404030023
Rock Channel/Swale 6000404030043
Rock Channel/Swale 6000404030073
Rock Check Dam 6000406010010
Rock Check Dam 6000406010011
Rock Check Dam 6000406010012
Rock Check Dam 6000406010013
Rock Check Dam 6000406010014
Rock Check Dam 6000406010015
Rock Check Dam 6000406010016
Rock Check Dam 6000406010017
Rock Check Dam 6000406010018
Rock Check Dam 6000406010019
Rock Check Dam 6000406010020
Rock Check Dam 6000406010021
Rock Check Dam 6000406010022
Rock Check Dam 6000406010052
Rock Check Dam 6000406010053
Rock Check Dam 6000406010054
Rock Check Dam 6000406010055
Rock Check Dam 6000406010056
Rock Check Dam 6000406010057
Rock Check Dam 6000406010058
Rock Check Dam 6000406010074
Rock Check Dam 6000406010075
Rock Check Dam 6000406010076
Rock Check Dam 6000406010077
Rock Check Dam 6000406010098

- Rock Check Dam 6000406010099
- Sediment Trap 6000405010145
- Straw Wattle 6000403060147
- Trench Drain 6000409040046
- TRM-Lined Swale 6000404080142
- TRM-Lined Swale 6000404080143
- TRM-Lined Swale 6000404080144

20.

AREA/ACTIVITY EXPOSED TO STORMWATER (identify needed maintenance or a description of corrective actions in relevant question comment).

21. Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.

- Yes

22. Transfer areas for substances in bulk: controls adequate (appropriate, effective, and operating)? If "No" describe.

- Yes

23. Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe.

- Yes

24. Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe.

- Yes

25. Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.

- Yes

26. Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If No, describe.

- Yes

27. Fueling areas: controls adequate (appropriate, effective, and operating)? If No, describe.

Yes

28. Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If No, describe.

Yes

29. Machinery: controls adequate (appropriate, effective, and operating)? If No, describe.

Yes

30. Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If No, describe.

Yes

31. Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If No, describe.

Yes

32. Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If No, describe.

Yes

33. Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If No, describe.

Yes

34. Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If No, describe.

Yes

35. Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If No, describe.

Yes

36. Leaks and spills: controls adequate (appropriate, effective, and operating)? If No, describe.

Yes

37. Sector AA: Fabricated metal products: controls adequate (appropriate, effective, and operating)? If No, describe.

Yes

38. Free of incidents of observed non-compliance not already identified above? If "No" describe.

Yes

39. Are permit requirements satisfied with existing control measure(s)? If "No" describe additional control measures needed.

Yes

40. Additional information:

41. Date inspection completed.

08/21/2024

42. Time inspection completed.

10:30AM

43. Select inspector name.

Lutz, Timothy

44. Signature/Name

I confirm the information as recorded is true, accurate and complete.

45.

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, e.g., FOD, Ops Mgr, EPC Group or Team Leader)

46. Print name and title:

LARRY VELASQUEZ, GROUP LEADER OMS

47. Signature:

48. Date:

9/3/2024

Go To Top

Documents

View Documents for this Questionnaire

Description	Document Type	Document Date

MSGP Record Print - Non-Employee Related Questionnaire (Clone)

Questionnaire Documents

Layouts MSGP Record Print - I

Details

Date Of Response *	09/26/2024	Questionnaire *	MSGP RFI TA-60-0001 Heavy Equipment Yard (MSGP FAC TA-60-1 HEY)
Source	Environment Inspection/Survey Program	QRHId	3796
Location	TA-60-0001 Heavy Equipment Yard(MSGP-0006)	Source Id	MSGP 2024 TA60-1 HEY
Created By	Lutz, Timothy (368093)		

Responses

1. Describe the weather at time of inspection and document the temperature (F).

78 degrees and sunny

2.

WITHIN THE FACILITY BOUNDARY

3. Is the facility free of previously unidentified discharges from and/or pollutants that have occurred since the last inspection? If No, describe.

- [x] Yes
- [ ] No

4. Has a CAR been previously initiated for discharge identified in the previous question?

- [ ] Yes
- [x] N/A
- [ ] No

5. Is the facility free of discharge of pollutants at the time of inspection? If No, describe.

- [x] Yes
- [ ] No

Comment

6. Is the facility free of evidence of, or the potential for, pollutants entering the drainage system. If No, describe.

- [x] Yes
- [ ] No

Comment

7.

OUTFALL INSPECTION (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant question comment).

stormwater discharges?

- [x] Yes
- [ ] No

Comment

9. Monitored Outfall 022: Are flow dissipation devices operating effectively?

- [x] Yes
- [ ] N/A
- [ ] No

Comment

10. Substantially Identical Discharge Point 021: Is the outfall free of evidence of erosion; free of evidence of pollutants in discharges and/or Receiving Water; AND free of any unauthorized non-stormwater discharges?

- [x] Yes
- [ ] No

Comment

11. Substantially Identical Discharge Point 021: Are flow dissipation devices operating effectively?

- [x] Yes

Comment

12. Substantially Identical Discharge Point 023: Is the outfall free of evidence of erosion; free of evidence of pollutants in discharges and/or Receiving Water; AND free of any unauthorized non-stormwater discharges?

- [x] Yes
- [ ] No

Comment

13. Substantially Identical Discharge Point 023: Are flow dissipation devices operating effectively?

- [x] Yes
- [ ] N/A
- [ ] No

Comment

14. Substantially Identical Discharge Point 024: Are flow dissipation devices operating effectively?

- [x] Yes
- [ ] N/A
- [ ] No

15. Substantially Identical Discharge Point 024: Is the outfall free of evidence of erosion; free of evidence of pollutants in discharges and/or Receiving Water; AND free of any unauthorized non-stormwater discharges?

- [x] Yes
- [ ] No

Comment

16. Substantially Identical Discharge Point 025: Is the outfall free of evidence of erosion; free of evidence of pollutants in discharges and/or Receiving Water; AND free of any unauthorized non-stormwater discharges?

- [x] Yes
- [ ] No

Comment

17. Substantially Identical Discharge Point 025: Are flow dissipation devices operating effectively?

- [x] Yes
- [ ] N/A
- [ ] No

Comment

18.

CONTROL MEASURES

19. Select control measures inspected. (Identify needed maintenance, repairs, failed control measures that need replacement, or description of corrective action in text box below.)

- [x] Asphalt Berm 6000403040027
- [x] Asphalt Berm 6000403040028
- [x] Asphalt Berm 6000403040029
- [x] Asphalt Berm 6000403040047
- [x] Concrete/Asphalt Channel/Swale 6000404020031
- [x] Concrete/Asphalt Channel/Swale 6000404020032
- [x] Drop Inlet with Filters 6000409020096
- [x] Drop Inlet with Petro-Plug 6000409010100
- [x] Earthen Channel/Swale 6000404010033
- [x] Earthen Channel/Swale 6000404010034
- [x] Eco-Block 6000403110060
- [x] Gabion 6000407010035
- [x] Gabion 6000407010036
- [x] Gabion 6000407010037
- [x] Gabion 6000407010038
- [x] Gabion Swale 6000404090042
- [x] Gravel Bags 6000403100061
- [x] Gravel Bags 6000403100095
- [x] Gravel Bags 6000403100101
- [x] Gravel Bags 6000403100146
- [x] Gravel Mulch 6000401050097
- [x] Heavy Metal Filter Sock 6000403210153
- [x] Heavy Metal Filter Sock 6000403210154
- [x] Heavy Metal Filter Sock 6000403210155
- [x] Heavy Metal Filter Sock 6000403210156
- [x] Heavy Metal Filter Sock 6000403210157
- [x] Heavy Metal Filter Sock 6000403210158
- [x] Heavy Metal Filter Sock 6000403210159

- [x] Heavy Metal Filter Sock 6000403210162
- [x] Heavy Metal Filter Sock 6000403210163
- [x] Heavy Metal Filter Sock 6000403210164
- [x] Heavy Metal Filter Sock 6000403210165
- [x] Heavy Metal Filter Sock 6000403210166
- [x] Heavy Metal Filter Sock 6000403210167
- [x] Heavy Metal Filter Sock 6000403210168
- [x] Heavy Metal Filter Sock 6000403210169
- [x] Heavy Metal Filter Sock 6000403210170
- [x] Heavy Metal Filter Sock 6000403210171
- [x] Riprap 6000404060002
- [x] Riprap 6000404060039
- [x] Rock Channel/Swale 6000404030023
- [x] Rock Channel/Swale 6000404030043
- [x] Rock Channel/Swale 6000404030073
- [x] Rock Check Dam 6000406010010
- [x] Rock Check Dam 6000406010011
- [x] Rock Check Dam 6000406010012
- [x] Rock Check Dam 6000406010013
- [x] Rock Check Dam 6000406010014
- [x] Rock Check Dam 6000406010015
- [x] Rock Check Dam 6000406010016
- [x] Rock Check Dam 6000406010017
- [x] Rock Check Dam 6000406010018
- [x] Rock Check Dam 6000406010019
- [x] Rock Check Dam 6000406010020
- [x] Rock Check Dam 6000406010021
- [x] Rock Check Dam 6000406010022
- [x] Rock Check Dam 6000406010052
- [x] Rock Check Dam 6000406010053
- [x] Rock Check Dam 6000406010054
- [x] Rock Check Dam 6000406010055
- [x] Rock Check Dam 6000406010056
- [x] Rock Check Dam 6000406010057
- [x] Rock Check Dam 6000406010058
- [x] Rock Check Dam 6000406010074
- [x] Rock Check Dam 6000406010075
- [x] Rock Check Dam 6000406010076

- [x] Rock Check Dam 6000406010099
- [x] Sediment Trap 6000405010145
- [x] Straw Wattle 6000403060147
- [x] Trench Drain 6000409040046
- [x] TRM-Lined Swale 6000404080142
- [x] TRM-Lined Swale 6000404080143
- [x] TRM-Lined Swale 6000404080144

20.

AREA/ACTIVITY EXPOSED TO STORMWATER (identify needed maintenance or a description of corrective actions in relevant question comment).

21. Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.

- [x] Yes
- [ ] N/A
- [ ] No

Comment

22. Transfer areas for substances in bulk: controls adequate (appropriate, effective, and operating)? If "No" describe.

- [x] Yes
- [ ] N/A
- [ ] No

Comment

- [x] Yes
- [ ] N/A
- [ ] No

Comment

24. Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe.

- [x] Yes
- [ ] N/A
- [ ] No

Comment

25. Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.

- [x] Yes
- [ ] N/A
- [ ] No

Comment

26. Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If No, describe.

No

Comment

27. Fueling areas: controls adequate (appropriate, effective, and operating)? If No, describe.

- [x] Yes
- [ ] N/A
- [ ] No

Comment

28. Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If No, describe.

- [x] Yes
- [ ] N/A
- [ ] No

Comment

29. Machinery: controls adequate (appropriate, effective, and operating)? If No, describe.

- [x] Yes
- [ ] N/A
- [ ] No

30. Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If No, describe.

- [x] Yes
- [ ] N/A
- [ ] No

Comment

31. Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If No, describe.

- [x] Yes
- [ ] N/A
- [ ] No

Comment

32. Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If No, describe.

- [x] Yes
- [ ] N/A
- [ ] No

Comment

33. Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If No, describe.

- [x] Yes
- [ ] N/A
- [ ] No

Comment

34. Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If No, describe.

- [x] Yes
- [ ] N/A
- [ ] No

Comment

35. Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If No, describe.

- [x] Yes
- [ ] N/A
- [ ] No

Comment

36. Leaks and spills: controls adequate (appropriate, effective, and operating)? If No, describe.

- Yes
- N/A
- [x] No

Comment

See CAR 2426. Vehicle hoists stored in lower yard leaked oil onto ground. Shop personnel are to remove and dispose of hoists, excavate and soil, dispose of soil and waste properly.

37. Sector AA: Fabricated metal products: controls adequate (appropriate, effective, and operating)? If No, describe.

- [x] Yes
- N/A
- No

Comment

38. Free of incidents of observed non-compliance not already identified above? If "No" describe.

- [x] Yes
- No

Comment

39. Are permit requirements satisfied with existing control measure(s)? If "No" describe additional control measures needed.

- [x] Yes
- [ ] No

Comment

40. Additional information:

Installed Above Grade Stormwater Filter and Husky Stormwater Oil and Sediment Filter E

41. Date inspection completed.

09/26/2024

42. Time inspection completed.

10:30AM

43. Select inspector name.

Lutz, Timothy

44. Signature/Name

I confirm the information as recorded is true, accurate and complete.*

Clear

45.

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, e.g., FOD, Ops Mgr, EPC Group or Team Leader)

46. Print name and title: LARRY VELASQUEZ Ops Mgr 5

47. Signature:

48. Date: 10/15/2024

Go To Top

MSGP Record Print - Non-Employee Related Questionnaire (Clone)

Questionnaire

Details

Date Of Response *	10/28/2024	**Questionnaire** *	MSGP RFI TA-60-0001 Heavy Equipment Yard (MSGP FAC TA-60-1 HEY)
Source	Environmental Questionnaire	**QRHId**	4507
Location	TA-60-0001 Heavy Equipment Yard(MSGP-0006)	**Source Id**	4507
Created By	Flores, Jairo (384848)		

Responses

1. Describe the weather at time of inspection and document the temperature (F).

68 degrees and sunny

2.

WITHIN THE FACILITY BOUNDARY

3. Is the facility free of previously unidentified discharges from and/or pollutants that have occurred since the last inspection? If No, describe.

- Yes

4. Has a CAR been previously initiated for discharge identified in the previous question?

- N/A

5. Is the facility free of discharge of pollutants at the time of inspection? If No, describe.

- Yes

6. Is the facility free of evidence of, or the potential for, pollutants entering the drainage system. If No, describe.

· Yes

7.

OUTFALL INSPECTION (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant question comment).

8. Monitored Outfall 022: Is the outfall free of evidence of erosion; free of evidence of pollutants in discharges and/or Receiving Water; AND free of any unauthorized non-stormwater discharges?

· Yes

9. Monitored Outfall 022: Are flow dissipation devices operating effectively?

· Yes

10. Substantially Identical Discharge Point 021: Is the outfall free of evidence of erosion; free of evidence of pollutants in discharges and/or Receiving Water; AND free of any unauthorized non-stormwater discharges?

· Yes

11. Substantially Identical Discharge Point 021: Are flow dissipation devices operating effectively?

· Yes

12. Substantially Identical Discharge Point 023: Is the outfall free of evidence of erosion; free of evidence of pollutants in discharges and/or Receiving Water; AND free of any unauthorized non-stormwater discharges?

· Yes

13. Substantially Identical Discharge Point 023: Are flow dissipation devices operating effectively?

· Yes

14. Substantially Identical Discharge Point 024: Are flow dissipation devices operating effectively?

- Yes

15. Substantially Identical Discharge Point 024: Is the outfall free of evidence of erosion; free of evidence of pollutants in discharges and/or Receiving Water; AND free of any unauthorized non-stormwater discharges?

- Yes

16. Substantially Identical Discharge Point 025: Is the outfall free of evidence of erosion; free of evidence of pollutants in discharges and/or Receiving Water; AND free of any unauthorized non-stormwater discharges?

- Yes

17. Substantially Identical Discharge Point 025: Are flow dissipation devices operating effectively?

- Yes

18.

CONTROL MEASURES

19. Select control measures inspected. (Identify needed maintenance, repairs, failed control measures that need replacement, or description of corrective action in text box below.)

- Asphalt Berm 6000403040027
- Asphalt Berm 6000403040028
- Asphalt Berm 6000403040029
- Asphalt Berm 6000403040047
- Concrete/Asphalt Channel/Swale 6000404020031
- Concrete/Asphalt Channel/Swale 6000404020173
- Curbing 6000403090174
- Curbing 6000403090175
- Drop Inlet with Filters 6000409020172
- Drop Inlet with Petro-Plug 6000409010100
- Earthen Channel/Swale 6000404010033
- Earthen Channel/Swale 6000404010034
- Eco-Block 6000403110060
- Gabion 6000407010035

- Gabion 6000407010036
- Gabion 6000407010037
- Gabion 6000407010038
- Gabion Swale 6000404090042
- Gravel Bags 6000403100061
- Gravel Bags 6000403100095
- Gravel Bags 6000403100101
- Gravel Bags 6000403100146
- Gravel Mulch 6000401050097
- Heavy Metal Filter Sock 6000403210153
- Heavy Metal Filter Sock 6000403210154
- Heavy Metal Filter Sock 6000403210155
- Heavy Metal Filter Sock 6000403210156
- Heavy Metal Filter Sock 6000403210157
- Heavy Metal Filter Sock 6000403210158
- Heavy Metal Filter Sock 6000403210160
- Heavy Metal Filter Sock 6000403210161
- Heavy Metal Filter Sock 6000403210162
- Heavy Metal Filter Sock 6000403210163
- Heavy Metal Filter Sock 6000403210164
- Heavy Metal Filter Sock 6000403210165
- Heavy Metal Filter Sock 6000403210166
- Heavy Metal Filter Sock 6000403210167
- Heavy Metal Filter Sock 6000403210168
- Heavy Metal Filter Sock 6000403210169
- Heavy Metal Filter Sock 6000403210170
- Heavy Metal Filter Sock 6000403210171
- Heavy Metal Filter Sock 6000403210176
- Heavy Metal Filter Sock 6000403210177
- Riprap 6000404060002
- Riprap 6000404060039
- Rock Channel/Swale 6000404030023
- Rock Channel/Swale 6000404030043
- Rock Channel/Swale 6000404030073
- Rock Check Dam 6000406010010
- Rock Check Dam 6000406010011
- Rock Check Dam 6000406010012
- Rock Check Dam 6000406010013
- Rock Check Dam 6000406010014
- Rock Check Dam 6000406010015
- Rock Check Dam 6000406010016
- Rock Check Dam 6000406010017
- Rock Check Dam 6000406010018
- Rock Check Dam 6000406010019
- Rock Check Dam 6000406010020
- Rock Check Dam 6000406010021
- Rock Check Dam 6000406010022
- Rock Check Dam 6000406010052
- Rock Check Dam 6000406010053
- Rock Check Dam 6000406010054
- Rock Check Dam 6000406010055
- Rock Check Dam 6000406010056
- Rock Check Dam 6000406010057
- Rock Check Dam 6000406010058

- Rock Check Dam 6000406010074
- Rock Check Dam 6000406010075
- Rock Check Dam 6000406010076
- Rock Check Dam 6000406010077
- Rock Check Dam 6000406010098
- Rock Check Dam 6000406010099
- Sediment Trap 6000405010145
- Straw Wattle 6000403060147
- Trench Drain 6000409040046
- TRM-Lined Swale 6000404080142
- TRM-Lined Swale 6000404080143
- TRM-Lined Swale 6000404080144

20.

AREA/ACTIVITY EXPOSED TO STORMWATER (identify needed maintenance or a description of corrective actions in relevant question comment).

21. Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.

- Yes

22. Transfer areas for substances in bulk: controls adequate (appropriate, effective, and operating)? If "No" describe.

- Yes

23. Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe.

- Yes

24. Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe.

- Yes

25. Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.

- Yes

26. Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If No, describe.

- Yes

27. Fueling areas: controls adequate (appropriate, effective, and operating)? If No, describe.

- Yes

28. Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If No, describe.

- Yes

29. Machinery: controls adequate (appropriate, effective, and operating)? If No, describe.

- Yes

30. Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If No, describe.

- Yes

31. Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If No, describe.

- Yes

32. Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If No, describe.

- Yes

33. Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If No, describe.

- Yes

34. Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If No, describe.

- Yes

35. Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If No, describe.

- Yes

36. Leaks and spills: controls adequate (appropriate, effective, and operating)? If No, describe.

- No

See CAR 2431. During site inspection it was discovered that an onsite forklift parked on the east side of TA-60-0001 was leaking hydraulic fluid onto concrete floor. TA-60-0001 operational staff was notified of leaking equipment. Staff then contained and cleaned released material, and equipment was moved inside for repairs. Unplanned Release form was filled out and sent to EPC-CP

37. Sector AA: Fabricated metal products: controls adequate (appropriate, effective, and operating)? If No, describe.

- Yes

38. Free of incidents of observed non-compliance not already identified above? If "No" describe.

- Yes

39. Are permit requirements satisfied with existing control measure(s)? If "No" describe additional control measures needed.

- Yes

40. Additional information:

CAR (2430) was submitted for Drop Inlet with Petro-Plug (6000409010100) on the southeast corner of the upper yard. Maintenace of the control should include the changing of filters and removal of sediment from the surrounding area. An additional CAR (2429) was submitted for the maintenance of check dams (6000406010054 & 6000406010054) along Maniac Street on the northwest area of the site.

41. Date inspection completed.

10/22/2024

42. Time inspection completed.

2:30 pm to 3:30 pm

43. Select inspector name.

Flores, Jairo

44. Signature/Name
I confirm the information as recorded is true, accurate and complete.

45.

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, e.g., FOD, Ops Mgr, EPC Group or Team Leader)

46. Print name and title: Larry Velasquez : LOG-HERG Operations Manager 5

47. Signature: LARRY VELASQUEZ (Affiliate) Digitally signed by LARRY VELASQUEZ (Affiliate) Date: 2024.10.29 09:52:58 -06'00'

48. Date: 10/29/2024

Go To Top

Documents

View Documents for this Questionnaire

Description	Document Type	Document Date

Non-Employee Related Questionnaire ⓘ

Questionnaire

Details

Date Of Response *	11/21/2024	**Questionnaire** *	MSGP RFI TA-60-0001 Heavy Equipment Yard (MSGP FAC TA-60-1 HEY)
Source	Environment Inspection/Survey Program	**Source Id**	MSGP 2024 TA60-1 HEY
In Progress			
Total Score			

Employee Work Demographic

Responses

1. Describe the weather at time of inspection and document the temperature (F).

42 °F and Sunny

2.

WITHIN THE FACILITY BOUNDARY

3. Is the facility free of previously unidentified discharges from and/or pollutants that have occurred since the last inspection? If No, describe.

- Yes

4. Has a CAR been previously initiated for discharge identified in the previous question?

- N/A

5. Is the facility free of discharge of pollutants at the time of inspection? If No, describe.

- Yes

6. Is the facility free of evidence of, or the potential for, pollutants entering the drainage system. If No, describe.

- Yes

7.

OUTFALL INSPECTION (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant question comment).

8. Monitored Outfall 022: Is the outfall free of evidence of erosion; free of evidence of pollutants in discharges and/or Receiving Water; AND free of any unauthorized non-stormwater discharges?

- Yes

9. Monitored Outfall 022: Are flow dissipation devices operating effectively?

- Yes

10. Substantially Identical Discharge Point 021: Is the outfall free of evidence of erosion; free of evidence of pollutants in discharges and/or Receiving Water; AND free of any unauthorized non-stormwater discharges?

- Yes

11. Substantially Identical Discharge Point 021: Are flow dissipation devices operating effectively?

- Yes

12. Substantially Identical Discharge Point 023: Is the outfall free of evidence of erosion; free of evidence of pollutants in discharges and/or Receiving Water; AND free of any unauthorized non-stormwater discharges?

- Yes

13. Substantially Identical Discharge Point 023: Are flow dissipation devices operating effectively?

- Yes

14. Substantially Identical Discharge Point 024: Are flow dissipation devices operating effectively?

- Yes

15. Substantially Identical Discharge Point 024: Is the outfall free of evidence of erosion; free of evidence of pollutants in discharges and/or Receiving Water; AND free of any unauthorized non-stormwater discharges?

- Yes

16. Substantially Identical Discharge Point 025: Is the outfall free of evidence of erosion; free of evidence of pollutants in discharges and/or Receiving Water; AND free of any unauthorized non-stormwater discharges?

- Yes

17. Substantially Identical Discharge Point 025: Are flow dissipation devices operating effectively?

- Yes

18.

CONTROL MEASURES

19. Select control measures inspected. (Identify needed maintenance, repairs, failed control measures that need replacement, or description of corrective action in text box below.)

- Asphalt Berm 6000403040027
- Asphalt Berm 6000403040028
- Asphalt Berm 6000403040029
- Asphalt Berm 6000403040047
- Concrete/Asphalt Channel/Swale 6000404020031
- Concrete/Asphalt Channel/Swale 6000404020173
- Curbing 6000403090174

- Curbing 6000403090175
- Drop Inlet with Filters 6000409020172
- Drop Inlet with Petro-Plug 6000409010100
- Earthen Channel/Swale 6000404010033
- Earthen Channel/Swale 6000404010034
- Eco-Block 6000403110060
- Gabion 6000407010035
- Gabion 6000407010036
- Gabion 6000407010037
- Gabion 6000407010038
- Gabion Swale 6000404090042
- Gravel Bags 6000403100061
- Gravel Bags 6000403100095
- Gravel Bags 6000403100101
- Gravel Bags 6000403100146
- Gravel Mulch 6000401050097
- Heavy Metal Filter Sock 6000403210153
- Heavy Metal Filter Sock 6000403210154
- Heavy Metal Filter Sock 6000403210155
- Heavy Metal Filter Sock 6000403210156
- Heavy Metal Filter Sock 6000403210157
- Heavy Metal Filter Sock 6000403210158
- Heavy Metal Filter Sock 6000403210160
- Heavy Metal Filter Sock 6000403210161
- Heavy Metal Filter Sock 6000403210162
- Heavy Metal Filter Sock 6000403210163
- Heavy Metal Filter Sock 6000403210164
- Heavy Metal Filter Sock 6000403210165
- Heavy Metal Filter Sock 6000403210166
- Heavy Metal Filter Sock 6000403210167
- Heavy Metal Filter Sock 6000403210168
- Heavy Metal Filter Sock 6000403210169
- Heavy Metal Filter Sock 6000403210170
- Heavy Metal Filter Sock 6000403210171
- Heavy Metal Filter Sock 6000403210176
- Heavy Metal Filter Sock 6000403210177
- Riprap 6000404060002
- Riprap 6000404060039
- Rock Channel/Swale 6000404030023
- Rock Channel/Swale 6000404030043
- Rock Channel/Swale 6000404030073
- Rock Check Dam 6000406010010
- Rock Check Dam 6000406010011
- Rock Check Dam 6000406010012
- Rock Check Dam 6000406010013
- Rock Check Dam 6000406010014
- Rock Check Dam 6000406010015
- Rock Check Dam 6000406010016
- Rock Check Dam 6000406010017
- Rock Check Dam 6000406010018
- Rock Check Dam 6000406010019

- Rock Check Dam 6000406010020
- Rock Check Dam 6000406010021
- Rock Check Dam 6000406010022
- Rock Check Dam 6000406010052
- Rock Check Dam 6000406010053
- Rock Check Dam 6000406010054
- Rock Check Dam 6000406010055
- Rock Check Dam 6000406010056
- Rock Check Dam 6000406010057
- Rock Check Dam 6000406010058
- Rock Check Dam 6000406010074
- Rock Check Dam 6000406010075
- Rock Check Dam 6000406010076
- Rock Check Dam 6000406010077
- Rock Check Dam 6000406010098
- Rock Check Dam 6000406010099
- Sediment Trap 6000405010145
- Straw Wattle 6000403060147
- Trench Drain 6000409040046
- TRM-Lined Swale 6000404080142
- TRM-Lined Swale 6000404080143
- TRM-Lined Swale 6000404080144

20.

AREA/ACTIVITY EXPOSED TO STORMWATER (identify needed maintenance or a description of corrective actions in relevant question comment).

21. Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.

- Yes

22. Transfer areas for substances in bulk: controls adequate (appropriate, effective, and operating)? If "No" describe.

- Yes

23. Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe.

- Yes

24. Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe.

- Yes

25. Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.

- Yes

26. Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If No, describe.

- Yes

27. Fueling areas: controls adequate (appropriate, effective, and operating)? If No, describe.

- Yes

28. Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If No, describe.

- Yes

29. Machinery: controls adequate (appropriate, effective, and operating)? If No, describe.

- Yes

30. Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If No, describe.

- Yes

31. Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If No, describe.

- Yes

32. Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If No, describe.

Yes

33. Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If No, describe.

Yes

34. Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If No, describe.

Yes

35. Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If No, describe.

Yes

36. Leaks and spills: controls adequate (appropriate, effective, and operating)? If No, describe.

Yes

37. Sector AA: Fabricated metal products: controls adequate (appropriate, effective, and operating)? If No, describe.

Yes

38. Free of incidents of observed non-compliance not already identified above? If "No" describe.

Yes

39. Are permit requirements satisfied with existing control measure(s)? If "No" describe additional control measures needed.

Yes

40. Additional information:

41. Date inspection completed.

11/21/2024

42. Time inspection completed.

10:00 am

43. Select inspector name.

Flores, Jairo

44. Signature/Name
I confirm the information as recorded is true, accurate and complete.

45.

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, e.g., FOD, Ops Mgr, EPC Group or Team Leader)

46. Print name and title: Larry Velasquez: LOG-HERG Operations Manager 5

47. Signature:

48. Date: 1/6/2025

Go To Top

MSGP Record Print - Non-Employee Related Questionnaire (Clone)

Details

Date Of Response *	12/19/2024	**Questionnaire ***	MSGP RFI TA-60-0001 Heavy Equipment Yard (MSGP FAC TA-60-1 HEY)
Source	Environment Inspection/Survey Program	**QRHId**	5721
Location	TA-60-0001 Heavy Equipment Yard(MSGP-0006)	**Source Id**	MSGP 2024 TA60-1 HEY
Created By	Flores, Jairo (384848)		

Responses

1. Describe the weather at time of inspection and document the temperature (F).

44 °F and Sunny

2.

WITHIN THE FACILITY BOUNDARY

3. Is the facility free of previously unidentified discharges from and/or pollutants that have occurred since the last inspection? If No, describe.

· Yes

4. Has a CAR been previously initiated for discharge identified in the previous question?

· N/A

5. Is the facility free of discharge of pollutants at the time of inspection? If No, describe.

· Yes

6. Is the facility free of evidence of, or the potential for, pollutants entering the drainage system. If No, describe.

- Yes

7.

OUTFALL INSPECTION (identify needed maintenance and repairs, failed control measures that need replacement, or a description of corrective actions in relevant question comment).

8. Monitored Outfall 022: Is the outfall free of evidence of erosion; free of evidence of pollutants in discharges and/or Receiving Water; AND free of any unauthorized non-stormwater discharges?

- Yes

9. Monitored Outfall 022: Are flow dissipation devices operating effectively?

- Yes

10. Substantially Identical Discharge Point 021: Is the outfall free of evidence of erosion; free of evidence of pollutants in discharges and/or Receiving Water; AND free of any unauthorized non-stormwater discharges?

- Yes

11. Substantially Identical Discharge Point 021: Are flow dissipation devices operating effectively?

- Yes

12. Substantially Identical Discharge Point 023: Is the outfall free of evidence of erosion; free of evidence of pollutants in discharges and/or Receiving Water; AND free of any unauthorized non-stormwater discharges?

- Yes

13. Substantially Identical Discharge Point 023: Are flow dissipation devices operating effectively?

- Yes

14. Substantially Identical Discharge Point 024: Are flow dissipation devices operating effectively?

- Yes

15. Substantially Identical Discharge Point 024: Is the outfall free of evidence of erosion; free of evidence of pollutants in discharges and/or Receiving Water; AND free of any unauthorized non-stormwater discharges?

- Yes

16. Substantially Identical Discharge Point 025: Is the outfall free of evidence of erosion; free of evidence of pollutants in discharges and/or Receiving Water; AND free of any unauthorized non-stormwater discharges?

- Yes

17. Substantially Identical Discharge Point 025: Are flow dissipation devices operating effectively?

- Yes

18.

CONTROL MEASURES

19. Select control measures inspected. (Identify needed maintenance, repairs, failed control measures that need replacement, or description of corrective action in text box below.)

- Asphalt Berm 6000403040027
- Asphalt Berm 6000403040028
- Asphalt Berm 6000403040029
- Asphalt Berm 6000403040047
- Concrete/Asphalt Channel/Swale 6000404020031
- Concrete/Asphalt Channel/Swale 6000404020173
- Curbing 6000403090174
- Curbing 6000403090175
- Drop Inlet with Filters 6000409020172
- Drop Inlet with Petro-Plug 6000409010100
- Earthen Channel/Swale 6000404010033

- Earthen Channel/Swale 6000404010034
- Eco-Block 6000403110060
- Gabion 6000407010035
- Gabion 6000407010036
- Gabion 6000407010037
- Gabion 6000407010038
- Gabion Swale 6000404090042
- Gravel Bags 6000403100061
- Gravel Bags 6000403100095
- Gravel Bags 6000403100101
- Gravel Bags 6000403100146
- Gravel Mulch 6000401050097
- Heavy Metal Filter Sock 6000403210153
- Heavy Metal Filter Sock 6000403210154
- Heavy Metal Filter Sock 6000403210155
- Heavy Metal Filter Sock 6000403210156
- Heavy Metal Filter Sock 6000403210157
- Heavy Metal Filter Sock 6000403210158
- Heavy Metal Filter Sock 6000403210160
- Heavy Metal Filter Sock 6000403210161
- Heavy Metal Filter Sock 6000403210162
- Heavy Metal Filter Sock 6000403210163
- Heavy Metal Filter Sock 6000403210164
- Heavy Metal Filter Sock 6000403210165
- Heavy Metal Filter Sock 6000403210166
- Heavy Metal Filter Sock 6000403210167
- Heavy Metal Filter Sock 6000403210168
- Heavy Metal Filter Sock 6000403210169
- Heavy Metal Filter Sock 6000403210170
- Heavy Metal Filter Sock 6000403210171
- Heavy Metal Filter Sock 6000403210176
- Heavy Metal Filter Sock 6000403210177
- Riprap 6000404060002
- Riprap 6000404060039
- Rock Channel/Swale 6000404030023
- Rock Channel/Swale 6000404030043
- Rock Channel/Swale 6000404030073
- Rock Check Dam 6000406010010
- Rock Check Dam 6000406010011
- Rock Check Dam 6000406010012
- Rock Check Dam 6000406010013
- Rock Check Dam 6000406010014
- Rock Check Dam 6000406010015
- Rock Check Dam 6000406010016
- Rock Check Dam 6000406010017
- Rock Check Dam 6000406010018
- Rock Check Dam 6000406010019
- Rock Check Dam 6000406010020
- Rock Check Dam 6000406010021
- Rock Check Dam 6000406010022
- Rock Check Dam 6000406010052

- Rock Check Dam 6000406010053
- Rock Check Dam 6000406010054
- Rock Check Dam 6000406010055
- Rock Check Dam 6000406010056
- Rock Check Dam 6000406010057
- Rock Check Dam 6000406010058
- Rock Check Dam 6000406010074
- Rock Check Dam 6000406010075
- Rock Check Dam 6000406010076
- Rock Check Dam 6000406010077
- Rock Check Dam 6000406010098
- Rock Check Dam 6000406010099
- Sediment Trap 6000405010145
- Straw Wattle 6000403060147
- Trench Drain 6000409040046
- TRM-Lined Swale 6000404080142
- TRM-Lined Swale 6000404080143
- TRM-Lined Swale 6000404080144

20.

AREA/ACTIVITY EXPOSED TO STORMWATER (identify needed maintenance or a description of corrective actions in relevant question comment).

21. Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.

- Yes

22. Transfer areas for substances in bulk: controls adequate (appropriate, effective, and operating)? If "No" describe.

- Yes

23. Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe.

- Yes

24. Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe.

- Yes

25. Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.

Yes

26. Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If No, describe.

Yes

27. Fueling areas: controls adequate (appropriate, effective, and operating)? If No, describe.

Yes

28. Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If No, describe.

Yes

29. Machinery: controls adequate (appropriate, effective, and operating)? If No, describe.

Yes

30. Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If No, describe.

Yes

31. Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If No, describe.

Yes

32. Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If No, describe.

- Yes

33. Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If No, describe.

- N/A

34. Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If No, describe.

- Yes

35. Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If No, describe.

- Yes

36. Leaks and spills: controls adequate (appropriate, effective, and operating)? If No, describe.

- No

During annual routine facility inspection with MSGP program personnel "Asphalt Distributor E01566T" was found releasing fluid onto dirt. See CAR 2446

37. Sector AA: Fabricated metal products: controls adequate (appropriate, effective, and operating)? If No, describe.

- Yes

38. Free of incidents of observed non-compliance not already identified above? If "No" describe.

- Yes

39. Are permit requirements satisfied with existing control measure(s)? If "No" describe additional control measures needed.

- Yes

40. Additional information:

41. Date inspection completed.

12/19/2024

42. Time inspection completed.

12:00 pm

43. Select inspector name.

Flores, Jairo

44. Signature/Name
I confirm the information as recorded is true, accurate and complete.

JF

45.

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, e.g., FOD, Ops Mgr, EPC Group or Team Leader)

46. Print name and title:

Larry Velasquez (Operations Manager 5)

47. Signature:

48. Date: 1/6/2025

Go To Top

ATTACHMENT 8: QUARTERLY VISUAL ASSESSMENTS

NMR050013 MSGP 2021
TA-60-1 Heavy Equipment Yard

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 (Affiliate) Digitally signed by TERRILL LEMKE (Affiliate) Date: 2021.10.27 10:33:58 -06'00'

Manager Signature

Facility Name	Sampling Station	Work Order #
TA-60-1 Heavy Equipment Yard-	MSGP02301	MSGP-65004
TA-60-1 Heavy Equipment Yard-	MSGP02201	MSGP-65033
TA-60-1 Heavy Equipment Yard-	MSGP02101	MSGP-65057
TA-60-1 Heavy Equipment Yard-	MSGP02501	MSGP-65058
TA-60-1 Heavy Equipment Yard-	MSGP02401	MSGP-65059

Los Alamos National Laboratory

Work Order MSGP-65004

MSGP Monitoring Stations
Printed 10/6/2021 - 5:44 PM

Maintenance Details

Requested: 7/7/2021 1:31:00 PM
Procedure: MSGP Quarterly Visual Assessment (EPC-CP-QP-2105 R1 Form 1)
Last PM: 10/29/2020
Project: Visual Assessments 7/1/21 (P-MSGP-5503)

Target: 9/30/2021
Priority/Type: / Inspection
Department: Utilities and Infrastructure

MSGP Program
RG121.9
TA-60-1 Heavy Equipment Yard
Monitored Outfall (022)
Substantially Identical Outfall (023)
MSGP02301

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	☐	☐	☑
40	Document the Date/Time Discharge began in the "Reading" field of this line (using mm/dd/yy hh:mm format).	7/20/21 16:00	☐	☐	☑
50	Document the Date/time sample collected in the "Reading" field of this line (using mm/dd/yy hh:mm format).	7/20/21 16:00	☐	☐	☑
60	Document the Date/time sample visually assessed in the "Reading" field of this line (using mm/dd/yy hh:mm format).	7/21/21 9:25	☐	☐	☑
70	Document the nature of discharge (e.g., rain, snowmelt). Document the TOTAL amount (in) in the "Reading" field of this line.	Rain 0.18 inch	☐	☐	☑
80	Sample collected in first 30 minutes of discharge? If "Failed" or unknown, provide a reason.		☐	☐	☑
	Parameters				
110	Is sample colorless? If "Failed", describe.	Light grey	☒	☐	☐
120	Is sample oderless? 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).	Fine sediment	☒	☐	☐
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.		☐	☐	☑

Labor Report

Completed: 7/21/2021 9:25:00 AM

Report: Alethea Banar

Signature / Name	Date	Signature / Name	Date
A K Banar	7/26/2021		

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 or Team Leader)

Print name and title: Terrill W. Lemke, EPC-CP Storm Water Permiting/Compliance Team Leader

Signature: (See signature on file) Date:

Los Alamos National Laboratory

Work Order MSGP-65033
MSGP Monitoring Stations
Printed 10/6/2021 - 5:43 PM

Maintenance Details

Requested: 7/6/2021 5:44:00 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)
Reason: MSGP Quarterly Visual Assessment

Target: 9/30/2021
Priority/Type: / Inspection
Department: Utilities and Infrastructure

MSGP Program
RG121.9
TA-60-1 Heavy Equipment Yard
Monitored Outfall (022)
MSGP02201

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	☐	☐	☑
40	Document the Date/Time Discharge began in the "Reading" field of this line (using mm/dd/yy hh:mm format).	7/11/21 15:08	☐	☐	☑
50	Document the Date/time sample collected in the "Reading" field of this line (using mm/dd/yy hh:mm format).	7/11/21 15:08	☐	☐	☑
60	Document the Date/time sample visually assessed in the "Reading" field of this line (using mm/dd/yy hh:mm format).	7/14/21 12:12	☐	☐	☑
70	Document the nature of discharge (e.g., rain, snowmelt). Document the TOTAL amount (in) in the "Reading" field of this line.	rain .11	☐	☐	☑
80	Sample collected in first 30 minutes of discharge? If "Failed" or unknown, provide a reason.		☐	☐	☑
Parameters					
110	Is sample colorless? If "Failed", describe.	brown	☒	☐	☐
120	Is sample oderless? 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).	slightly cloudy	☒	☐	☐
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).	few fine	☒	☐	☐
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.		☐	☐	☑

Labor Report

Completed: 7/14/2021 12:12:00 PM

Report: Marwin Shendo

MSH

Signature / Name

7/16/2021
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, DESH Group Leader, EPC Group or Team Leader)

Print name and title: Terrill W. Lemke, EPC-CP Storm Water Permiting/Compliance Team Leader

Signature: (See signature on file) Date:

Los Alamos National Laboratory

Work Order MSGP-65057

MSGP Monitoring Stations
Printed 10/6/2021 - 5:44 PM

Maintenance Details

Requested By: Banar, Alethea on 7/7/2021 11:24:00 AM
Taken By: Banar, Alethea
Procedure: MSGP Quarterly Visual Assessment (EPC-CP-QP-2105 R1 Form 1)
Last PM: 7/7/2021
Project: Visual Assessments 7/1/21 (P-MSGP-5503)
Reason: MSGP Quarterly Visual Assessment

Target: 9/30/2021
Priority/Type: / Inspection
Department: Utilities and Infrastructure

MSGP Program
RG121.9
TA-60-1 Heavy Equipment Yard
Monitored Outfall (022)
Substantially Identical Outfall (021)
MSGP02101

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.	July-Sept	☐	☐	☑
40	Document the Date/Time Discharge began in the "Reading" field of this line (using mm/dd/yy hh:mm format).	7/1/21 13:20	☐	☐	☑
50	Document the Date/time sample collected in the "Reading" field of this line (using mm/dd/yy hh:mm format).	7/7/21 10:01	☐	☐	☑
60	Document the Date/time sample visually assessed in the "Reading" field of this line (using mm/dd/yy hh:mm format).	7/7/21 10:01	☐	☐	☑
70	Document the nature of discharge (e.g., rain, snowmelt). Document the TOTAL amount (in) in the "Reading" field of this line.	Rain 0.24 in.	☐	☐	☑
80	Sample collected in first 30 minutes of discharge? If "Failed" or unknown, provide a reason.		☐	☐	☑
Parameters					
110	Is sample colorless? If "Failed", describe.	Light tan	☒	☐	☐
120	Is sample oderless? 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.	Pollen	☒	☐	☐
150	Is sample free of settled solids? If "Failed", provide description (e.g., fine, course).	Course sediment	☒	☐	☐
160	Is sample free of suspended solids? If "Failed", provide description (e.g., fine, course).	Fine sediment	☒	☐	☐
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.		☐	☐	☑

Labor Report

Completed: 7/7/2021 10:01:00 AM

Report: Alethea Banar

7/7/2021

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, DESH Group Leader, EPC Group or Team Leader)

Print name and title: Terrill W. Lemke, EPC-CP Storm Water Permiting/Compliance Team Leader

Signature: (See signature on file) Date:

Los Alamos National Laboratory

Work Order MSGP-65058
MSGP Monitoring Stations
Printed 10/6/2021 - 5:46 PM

Maintenance Details

Requested By: Banar, Alethea on 7/7/2021 11:28:00 AM
Taken By: Banar, Alethea
Procedure: MSGP Quarterly Visual Assessment (EPC-CP-QP-2105 R1 Form 1)
Last PM: 7/7/2021
Project: Visual Assessments 7/1/21 (P-MSGP-5503)

Target: 9/30/2021
Priority/Type: / Inspection
Department: Utilities and Infrastructure

MSGP Program
RG121.9
TA-60-1 Heavy Equipment Yard
Monitored Outfall (022)
Substantially Identical Outfall (025)
MSGP02501

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.	July-Sept	☐	☐	☑
40	Document the Date/Time Discharge began in the "Reading" field of this line (using mm/dd/yy hh:mm format).	7/1/21 13:20	☐	☐	☑
50	Document the Date/time sample collected in the "Reading" field of this line (using mm/dd/yy hh:mm format).	7/7/21 9:22	☐	☐	☑
60	Document the Date/time sample visually assessed in the "Reading" field of this line (using mm/dd/yy hh:mm format).	7/7/21 9:22	☐	☐	☑
70	Document the nature of discharge (e.g., rain, snowmelt). Document the TOTAL amount (in) in the "Reading" field of this line.	Rain 0.24 in.	☐	☐	☑
80	Sample collected in first 30 minutes of discharge? If "Failed" or unknown, provide a reason.		☐	☐	☑
Parameters					
110	Is sample colorless? If "Failed", describe.		☐	☐	☑
120	Is sample oderless? 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).	Fine and course sediment	☒	☐	☐
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.		☐	☐	☑

Labor Report

Completed: 7/7/2021 9:22:00 AM

Report: Alethea Banar

7/7/2021

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, DESH Group Leader, EPC Group or Team Leader)

Print name and title: Terrill W. Lemke, EPC-CP Storm Water Permiting/Compliance Team Leader

Signature: (See signature on file) Date:

Los Alamos National Laboratory

Work Order MSGP-65059
MSGP Monitoring Stations
Printed 10/6/2021 - 5:45 PM

Maintenance Details

Requested By: Banar, Alethea on 7/7/2021 11:32:00 AM
Taken By: Banar, Alethea
Procedure: MSGP Quarterly Visual Assessment (EPC-CP-QP-2105 R1 Form 1)
Last PM: 7/7/2021
Project: Visual Assessments 7/1/21 (P-MSGP-5503)
Reason: MSGP Quarterly Visual Assessment

Target: 9/30/2021
Priority/Type: / Inspection
Department: Utilities and Infrastructure

MSGP Program
RG121.9
TA-60-1 Heavy Equipment Yard
Monitored Outfall (022)
Substantially Identical Outfall (024)
MSGP02401

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.	July-Sept	☐	☐	☑
40	Document the Date/Time Discharge began in the "Reading" field of this line (using mm/dd/yy hh:mm format).	7/1/21 13:20	☐	☐	☑
50	Document the Date/time sample collected in the "Reading" field of this line (using mm/dd/yy hh:mm format).	7/7/21 9:27	☐	☐	☑
60	Document the Date/time sample visually assessed in the "Reading" field of this line (using mm/dd/yy hh:mm format).	7/7/21 9:27	☐	☐	☑
70	Document the nature of discharge (e.g., rain, snowmelt). Document the TOTAL amount (in) in the "Reading" field of this line.	Rain 0.24 in.	☐	☐	☑
80	Sample collected in first 30 minutes of discharge? If "Failed" or unknown, provide a reason.		☐	☐	☑
Parameters					
110	Is sample colorless? If "Failed", describe.		☐	☐	☑
120	Is sample oderless? 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).	Fine and course sediment	☒	☐	☐
160	Is sample free of suspended solids? If "Failed", provide description (e.g., fine, course).	Fine sediment	☒	☐	☐
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.		☐	☐	☑

Labor Report

Completed: 7/7/2021 9:27:00 AM

Report: Alethea Banar

7/7/2021

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, DESH Group Leader, EPC Group or Team Leader)

Print name and title: Terrill W. Lemke, EPC-CP Storm Water Permiting/Compliance Team Leader

Signature: (See signature on file) Date:

NMR050013 MSGP 2021
TA-60-1 Heavy Equipment Yard

Quarterly Visual Assessment Forms,
Second Quarter, October through December 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 (Affiliate) Digitally signed by TERRILL LEMKE (Affiliate) Date: 2022.01.14 12:55:57 -07'00'

Manager Signature

Facility Name	Sampling Station	Work Order #
TA-60 Roads and Grounds	MSGP02101	MSGP-65262
TA-60 Roads and Ground	MSGP02301	MSGP-65263
TA-60 Roads and Ground	MSGP02401	MSGP-65264
TA-60 Roads and Ground	MSGP02501	MSGP-65265
TA-60 Roads and Ground	MSGP02201	MSGP-65618

Los Alamos National Laboratory

Work Order MSGP-65262

MSGP Monitoring Stations
Printed 12/13/2021 - 5:31 PM

Maintenance Details

Requested: 10/1/2021 2:04:00 PM
Procedure: MSGP Quarterly Visual Assessment (EPC-CP-QP-2105 R1 Form 1)
Last PM: 10/1/2021
Project: Visual Assessments 10/1/21 (P-MSGP-5523)

Target: 11/30/2021
Priority/Type: Normal / Inspection
Department: Utilities and Infrastructure

MSGP Program
RG121.9
TA-60-1 Heavy Equipment Yard
Monitored Outfall (022)
Substantially Identical Outfall (021)
MSGP02101

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	☐	☐	☑
40	Document the Date/Time Discharge began in the "Reading" field of this line (using mm/dd/yy hh:mm format).	10/1/21 1:00am	☐	☐	☑
50	Document the Date/time sample collected in the "Reading" field of this line (using mm/dd/yy hh:mm format).	10/1/21 1:00am	☐	☐	☑
60	Document the Date/time sample visually assessed in the "Reading" field of this line (using mm/dd/yy hh:mm format).	10/1/21 12:50pm	☐	☐	☑
70	Document the nature of discharge (e.g., rain, snowmelt). Document the TOTAL amount (in) in the "Reading" field of this line.	Rain 1.31 in	☐	☐	☑
80	Sample collected in first 30 minutes of discharge? If "Failed" or unknown, provide a reason.		☐	☐	☑
	Parameters				
110	Is sample colorless? If "Failed", describe.		☐	☐	☑
120	Is sample oderless? 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). Comments: Very small amount of medium sediment		☒	☐	☐
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.		☐	☐	☑

Labor Report

Completed: 10/1/2021 12:50:00 PM

Report: Alethea Banar

AK Banar — 10/1/2021
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 Permiting/Compliance Team Leader

Signature: (See signature on file) Date:

Los Alamos National Laboratory

Work Order MSGP-65263

MSGP Monitoring Stations
Printed 12/13/2021 - 5:33 PM

Maintenance Details

Requested: 10/1/2021 2:04:00 PM
Procedure: MSGP Quarterly Visual Assessment (EPC-CP-QP-2105 R1 Form 1)
Last PM: 9/30/2021
Project: Visual Assessments 10/1/21 (P-MSGP-5523)

Target: 11/30/2021
Priority/Type: Normal / Inspection
Department: Utilities and Infrastructure

MSGP Program
RG121.9
TA-60-1 Heavy Equipment Yard
Monitored Outfall (022)
Substantially Identical Outfall (023)
MSGP02301

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	☐	☐	☑
40	Document the Date/Time Discharge began in the "Reading" field of this line (using mm/dd/yy hh:mm format).	10/1/21 1:00am	☐	☐	☑
50	Document the Date/time sample collected in the "Reading" field of this line (using mm/dd/yy hh:mm format).	10/1/21 1:00am	☐	☐	☑
60	Document the Date/time sample visually assessed in the "Reading" field of this line (using mm/dd/yy hh:mm format).	10/1/21 12:35pm	☐	☐	☑
70	Document the nature of discharge (e.g., rain, snowmelt). Document the TOTAL amount (in) in the "Reading" field of this line.	Rain 1.31 in	☐	☐	☑
80	Sample collected in first 30 minutes of discharge? If "Failed" or unknown, provide a reason.		☐	☐	☑
	Parameters				
110	Is sample colorless? If "Failed", describe. Comments: Slight tan color		☒	☐	☐
120	Is sample oderless? 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). Comments: Small amount find sediment		☒	☐	☐
160	Is sample free of suspended solids? If "Failed", provide description (e.g., fine, course). Comments: Small amount fine sediment		☒	☐	☐
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.		☐	☐	☑

Labor Report

Completed: 10/1/2021 12:35:00 PM

Report: Alethea Banar

Signature / Name	Date	Signature / Name	Date
	10/1/2021		

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 Permiting/Compliance Team Leader

Signature: (See signature on file) Date:

Los Alamos National Laboratory

Work Order MSGP-65264

MSGP Monitoring Stations
Printed 12/13/2021 - 5:34 PM

Maintenance Details

Requested: 10/1/2021 2:04:00 PM
Procedure: MSGP Quarterly Visual Assessment (EPC-CP-QP-2105 R1 Form 1)
Last PM: 10/1/2021
Project: Visual Assessments 10/1/21 (P-MSGP-5523)

Target: 11/30/2021
Priority/Type: Normal / Inspection
Department: Utilities and Infrastructure

MSGP Program
RG121.9
TA-60-1 Heavy Equipment Yard
Monitored Outfall (022)
Substantially Identical Outfall (024)
MSGP02401

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	☐	☐	☑
40	Document the Date/Time Discharge began in the "Reading" field of this line (using mm/dd/yy hh:mm format).	10/1/21 1:00am	☐	☐	☑
50	Document the Date/time sample collected in the "Reading" field of this line (using mm/dd/yy hh:mm format).	10/1/21 1:00am	☐	☐	☑
60	Document the Date/time sample visually assessed in the "Reading" field of this line (using mm/dd/yy hh:mm format).	10/1/21 12:30pm	☐	☐	☑
70	Document the nature of discharge (e.g., rain, snowmelt). Document the TOTAL amount (in) in the "Reading" field of this line.	Rain 1.31 in	☐	☐	☑
80	Sample collected in first 30 minutes of discharge? If "Failed" or unknown, provide a reason.		☐	☐	☑
	Parameters				
110	Is sample colorless? If "Failed", describe. Comments: Slight tan color		☒	☐	☐
120	Is sample oderless? 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). Comments: Fine sediment		☒	☐	☐
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.		☐	☐	☑

Labor Report

Completed: 10/1/2021 12:30:00 PM

Report: Alethea Banar

10/1/2021

Signature / Name	Date	Signature / Name	Date
AK Bamer			

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 Permiting/Compliance Team Leader

Signature: (See signature on file) Date:

Los Alamos National Laboratory

Work Order MSGP-65265

MSGP Monitoring Stations
Printed 12/13/2021 - 5:34 PM

Maintenance Details

Requested: 10/1/2021 2:04:00 PM
Procedure: MSGP Quarterly Visual Assessment (EPC-CP-QP-2105 R1 Form 1)
Last PM: 10/1/2021
Project: Visual Assessments 10/1/21 (P-MSGP-5523)

Target: 11/30/2021
Priority/Type: Normal / Inspection
Department: Utilities and Infrastructure

MSGP Program
RG121.9
TA-60-1 Heavy Equipment Yard
Monitored Outfall (022)
Substantially Identical Outfall (025)
MSGP02501

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	☐	☐	☑
40	Document the Date/Time Discharge began in the "Reading" field of this line (using mm/dd/yy hh:mm format).	10/1/21 1:00am	☐	☐	☑
50	Document the Date/time sample collected in the "Reading" field of this line (using mm/dd/yy hh:mm format).	10/1/21 1:00am	☐	☐	☑
60	Document the Date/time sample visually assessed in the "Reading" field of this line (using mm/dd/yy hh:mm format).	10/1/21 12:25pm	☐	☐	☑
70	Document the nature of discharge (e.g., rain, snowmelt). Document the TOTAL amount (in) in the "Reading" field of this line.	Rain 1.31 in	☐	☐	☑
80	Sample collected in first 30 minutes of discharge? If "Failed" or unknown, provide a reason.		☐	☐	☑
	Parameters				
110	Is sample colorless? If "Failed", describe. Comments: Slight yellow color		☒	☐	☐
120	Is sample oderless? 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.		☐	☐	☑

Labor Report

Completed: 10/1/2021 12:25:00 PM

Report: Alethea Banar

Signature / Name	Date	Signature / Name	Date
AK Banar	10/1/2021		

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 Permiting/Compliance Team Leader

Signature: (See signature on file) Date:

Los Alamos National Laboratory

Work Order MSGP-65618

MSGP Monitoring Stations
Printed 1/5/2022 - 9:51 AM (Duplicate Copy)

Maintenance Details

Requested By: Banar, Alethea on 1/4/2022 2:37:00 PM
Taken By: Banar, Alethea
Procedure: MSGP Quarterly Visual Assessment (EPC-CP-QP-2105 R1 Form 1)
Last PM: 1/3/2022
Project: Visual Assessments 10/1/21 (P-MSGP-5523)

Target: 12/31/2021
Priority/Type: / Inspection
Department: Utilities and Infrastructure

MSGP Program
RG121.9
TA-60-1 Heavy Equipment Yard
Monitored Outfall (022)
MSGP02201

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.	Quarter 2	☐	☐	☑
40	Document the Date/Time Discharge began in the "Reading" field of this line (using mm/dd/yy hh:mm format)	12/24/21 @10:24	☐	☐	☑
50	Document the Date/time sample collected in the "Reading" field of this line (using mm/dd/yy hh:mm format)	12/24/21 @10:24	☐	☐	☑
60	Document the Date/time sample visually assessed in the "Reading" field of this line (using mm/dd/yy hh:mm format)	1/3/22 @14:40	☐	☐	☑
70	Document the nature of discharge (e.g., rain, snowmelt). Document the TOTAL amount (in) in the "Reading" field of this line.	snowmelt .23est	☐	☐	☑
80	Sample collected in first 30 minutes of discharge? If "Failed" or unknown, provide a reason.		☐	☐	☑
	Parameters				
110	Is sample colorless? If "Failed", describe.	brown	☒	☐	☐
120	Is sample oderless? 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)	slightly cloudy	☒	☐	☐
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).	fine	☒	☐	☐
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.		☐	☐	☑

Labor Report

Completed: 1/3/2022 2:40:00 PM

Report: Marwin Shendo

MARWIN SHENDO (Affiliate) Digitally signed by MARWIN SHENDO (Affiliate) Date: 2022.01.05 12:13:33 -07'00'

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 Permiting Compliance Team Leader

Signature: (See signature on file) Date:

NMR050013 MSGP 2021
TA-60-0001 Heavy Equipment Yard

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 (Affiliate) Digitally signed by TERRILL LEMKE (Affiliate) Date: 2022.11.18 11:07:42 -07'00'

Manager Signature

Facility Name	Sampling Station	Work Order #
TA-60-0001 Heavy Equipment Yard	MSGP02101	MSGP-65527
TA-60-0001 Heavy Equipment Yard	MSGP02401	MSGP-65529
TA-60-0001 Heavy Equipment Yard	MSGP02501	MSGP-65536
TA-60-0001 Heavy Equipment Yard	MSGP02301	MSGP-65546
TA-60-0001 Heavy Equipment Yard	MSGP02201	MSGP-65606

Los Alamos National Laboratory

Work Order MSGP-65527

MSGP Monitoring Stations
Printed 3/14/2022 - 5:51 PM

Maintenance Details

Requested: 1/6/2022 12:15:00 PM
Procedure: MSGP Quarterly Visual Assessment (EPC-CP-QP-2105 R1 Form 1)
Last PM: 1/6/2022
Project: Visual Assessments 1/1/22 (P-MSGP-5554)

Target: 3/31/2022
Priority/Type: / Inspection
Department: Utilities and Infrastructure

MSGP Program
RG121.9
TA-60-0001 Heavy Equipment Yard
Monitored Outfall (022)
Substantially Identical Outfall (021)
MSGP02101

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-Feb-Mar	☐	☐	☑
40	Document the Date/Time Discharge began in the "Reading" field of this line (using mm/dd/yy hh:mm format). Comments: Snowmelt discharge occurring at time of inspection.	1/6/22 11:20	☐	☐	☑
50	Document the Date/time sample collected in the "Reading" field of this line (using mm/dd/yy hh:mm format). Comments: Grab sample taken at time of inspetion.	1/6/22 11:20	☐	☐	☑
60	Document the Date/time sample visually assessed in the "Reading" field of this line (using mm/dd/yy hh:mm format).	1/6/22 11:20	☐	☐	☑
70	Document the nature of discharge (e.g., rain, snowmelt). Document the TOTAL amount (in) in the "Reading" field of this line.	Snowmelt 0.67 in	☐	☐	☑
80	Sample collected in first 30 minutes of discharge? If "Failed" or unknown, provide a reason.		☐	☐	☑
	Parameters				
110	Is sample colorless? If "Failed", describe.	Slight tan color	☒	☐	☐
120	Is sample oderless? 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).	Fine sediment	☒	☐	☐
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.		☐	☐	☑

Labor Report

Completed: 1/6/2022 11:20:00 AM

Report: Snow 0.23 inch on 12/24/21. Estimated values from adjacent RG. TA-06 equipment failure.
Snow 0.67 inch on 12/31/21. Estimated values from adjacent RG. TA-06 equipment failure.

Alethea Banar

Signature / Name	Date	Signature / Name	Date
	1/6/2022		

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:

Los Alamos National Laboratory

Work Order MSGP-65529

MSGP Monitoring Stations
Printed 3/14/2022 - 5:50 PM

Maintenance Details

Requested: 1/4/2022 3:10:00 PM
Procedure: MSGP Quarterly Visual Assessment (EPC-CP-QP-2105 R1 Form 1)
Last PM: 1/3/2022
Project: Visual Assessments 1/1/22 (P-MSGP-5554)

Target: 3/31/2022
Priority/Type: / Inspection
Department: Utilities and Infrastructure

MSGP Program
RG121.9
TA-60-0001 Heavy Equipment Yard
Monitored Outfall (022)
Substantially Identical Outfall (024)
MSGP02401

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-Feb-Mar	☐	☐	☑
40	Document the Date/Time Discharge began in the "Reading" field of this line (using mm/dd/yy hh:mm format). Comments: Snowmelt discharge occurring at time of inspection.	1/3/21 11:00	☐	☐	☑
50	Document the Date/time sample collected in the "Reading" field of this line (using mm/dd/yy hh:mm format). Comments: Grab sample taken at time of inspection.	1/3/21 11:00	☐	☐	☑
60	Document the Date/time sample visually assessed in the "Reading" field of this line (using mm/dd/yy hh:mm format).	1/3/21 11:00	☐	☐	☑
70	Document the nature of discharge (e.g., rain, snowmelt). Document the TOTAL amount (in) in the "Reading" field of this line.	Snowmelt 0.67 in	☐	☐	☑
80	Sample collected in first 30 minutes of discharge? If "Failed" or unknown, provide a reason.		☐	☐	☑
	Parameters				
110	Is sample colorless? If "Failed", describe.	Slight brown color	☒	☐	☐
120	Is sample oderless? 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).	Fine sediment	☒	☐	☐
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.		☐	☐	☑

Labor Report

Completed: 1/3/2022 11:00:00 AM

Report: Sampler jar was removed when previous quarter's sample was collected to prevent freezing and breakage. A grab sample was taken at time of this inspection.

Snow 0.23 inch on 12/24/21. Estimated values from adjacent RG. TA-06 RG equipment failure.
Snow 0.67 inch on 12/31/21. Estimated values from adjacent RG. TA-06 RG equipment failure.

Alethea Banar

Signature / Name	Date	Signature / Name	Date
	1/5/2022		

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:

Los Alamos National Laboratory

Work Order MSGP-65536

MSGP Monitoring Stations
Printed 3/14/2022 - 5:49 PM

Maintenance Details

Requested: 1/6/2022 4:23:00 PM
Procedure: MSGP Quarterly Visual Assessment (EPC-CP-QP-2105 R1 Form 1)
Last PM: 1/10/2022
Project: Visual Assessments 1/1/22 (P-MSGP-5554)

Target: 3/31/2022
Priority/Type: / Inspection
Department: Utilities and Infrastructure

MSGP Program
RG121.9
TA-60-0001 Heavy Equipment Yard
Monitored Outfall (022)
Substantially Identical Outfall (025)
MSGP02501

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-Feb-Mar	☐	☐	☑
40	Document the Date/Time Discharge began in the "Reading" field of this line (using mm/dd/yy hh:mm format). Comments: Snowmelt occurring at time of inspection.	1/10/22 15:09	☐	☐	☑
50	Document the Date/time sample collected in the "Reading" field of this line (using mm/dd/yy hh:mm format). Comments: Sample jar full at time of inspection and snowmelt discharge flow continuing to overflow jar.	1/10/22 15:09	☐	☐	☑
60	Document the Date/time sample visually assessed in the "Reading" field of this line (using mm/dd/yy hh:mm format).	1/10/22 15:09	☐	☐	☑
70	Document the nature of discharge (e.g., rain, snowmelt). Document the TOTAL amount (in) in the "Reading" field of this line.	Snowmelt 0.67 in	☐	☐	☑
80	Sample collected in first 30 minutes of discharge? If "Failed" or unknown, provide a reason.		☐	☐	☑
	Parameters				
110	Is sample colorless? If "Failed", describe.	Slight tan color	☒	☐	☐
120	Is sample oderless? 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).	Fine sediment	☒	☐	☐
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.		☐	☐	☑

Labor Report

Completed: 1/10/2022 3:09:00 PM

Report: Snow 0.23 inch on 12/24/21. Estimated values from adjacent RG. TA-06 equipment failure.

Snow 0.67 inch on 12/31/21. Estimated values from adjacent RG. TA-06 equipment failure.

Alethea Banar

AK Banar	1/10/2022		
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 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:

Los Alamos National Laboratory

Work Order MSGP-65546

MSGP Monitoring Stations
Printed 3/14/2022 - 5:50 PM

Maintenance Details

Requested: 1/6/2022 4:24:00 PM
Procedure: MSGP Quarterly Visual Assessment (EPC-CP-QP-2105 R1 Form 1)
Last PM: 1/10/2022
Project: Visual Assessments 1/1/22 (P-MSGP-5554)

Target: 3/31/2022
Priority/Type: / Inspection
Department: Utilities and Infrastructure

MSGP Program
RG121.9
TA-60-0001 Heavy Equipment Yard
Monitored Outfall (022)
Substantially Identical Outfall (023)
MSGP02301

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-Feb-Mar	☐	☐	☑
40	Document the Date/Time Discharge began in the "Reading" field of this line (using mm/dd/yy hh:mm format).	1/10/22 15:15	☐	☐	☑
50	Document the Date/time sample collected in the "Reading" field of this line (using mm/dd/yy hh:mm format). Comments: Small amount of snowmelt in sample jar. Estimate discharge occurred between 1/6/22 and 1/10/22. Discharge at time of inspection was a small amount of surface flow (seeping) but evidence of melt observed throughout HEY lower yard.	1/10/22 15:15	☐	☐	☑
60	Document the Date/time sample visually assessed in the "Reading" field of this line (using mm/dd/yy hh:mm format).	1/10/22 15:15	☐	☐	☑
70	Document the nature of discharge (e.g., rain, snowmelt). Document the TOTAL amount (in) in the "Reading" field of this line. Comments: Small amount of snowmelt in sample jar. Estimate discharge occurred between 1/6/22 and 1/10/22. Discharge at time of inspection was a small amount of surface flow (seeping) but evidence of melt observed throughout HEY lower yard.	Snowmelt 0.67 in	☐	☐	☑
80	Sample collected in first 30 minutes of discharge? If "Failed" or unknown, provide a reason.		☐	☐	☑
	Parameters				
110	Is sample colorless? If "Failed", describe.	Slight grey color	☒	☐	☐
120	Is sample oderless? 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.	Slightly cloudy	☒	☐	☐
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).	Fine sediment	☒	☐	☐
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.		☐	☐	☑

Labor Report

Completed: 1/10/2022 3:15:00 PM

Report: Snow 0.23 inch on 12/24/21. Estimated values from adjacent RG. TA-06 equipment failure.
Snow 0.67 inch on 12/31/21. Estimated values from adjacent RG. TA-06 equipment failure.

Alethea Banar

Signature / Name	Date	Signature / Name	Date
AKBanar	1/10/2022		

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:

Los Alamos National Laboratory

Work Order MSGP-65606
MSGP Monitoring Stations
Printed 3/23/2022 - 1:27 PM

Maintenance Details

Requested: 12/17/2021 3:34:00 PM
Procedure: MSGP Quarterly Visual Assessment (EPC-CP-QP-2105 R1 Form 1)
Last PM: 1/27/2022
Project: Visual Assessments 1/1/22 (P-MSGP-5554)
Reason: MSGP Quarterly Visual Assessment

Target: 3/31/2022
Priority/Type: / Inspection
Department: Utilities and Infrastructure

MSGP Program
RG121.9
TA-60-0001 Heavy Equipment Yard
Monitored Outfall (022)
MSGP02201

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-Mar	☐	☐	☑
40	Document the Date/Time Discharge began in the "Reading" field of this line (using mm/dd/yy hh:mm format).	3/17/22 12:17	☐	☐	☑
50	Document the Date/time sample collected in the "Reading" field of this line (using mm/dd/yy hh:mm format).	3/17/22 12:17	☐	☐	☑
60	Document the Date/time sample visually assessed in the "Reading" field of this line (using mm/dd/yy hh:mm format).	3/18/22 1312	☐	☐	☑
70	Document the nature of discharge (e.g., rain, snowmelt). Document the TOTAL amount (in) in the "Reading" field of this line.	snowmelt	☐	☐	☑
80	Sample collected in first 30 minutes of discharge? If "Failed" or unknown, provide a reason.		☐	☐	☑
Parameters					
110	Is sample colorless? If "Failed", describe.	brown	☒	☐	☐
120	Is sample oderless? If "Failed", provide description (e.g. musty, sewage, sulfur, sour, solvent, petroleum/gas)	musty	☒	☐	☐
130	Is sample clear? If "Failed", provide description (e.g., slightly cloudy, cloudy, opaque).	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).	fine	☒	☐	☐
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.		☐	☐	☑

Labor Report

Completed: 3/18/2022 1:12:00 PM

Report: Marwin Shendo

Signature / Name	Date	Signature / Name	Date
	3/22/2022		

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-60-0001 Heavy Equipment Yard

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 (Affiliate) Digitally signed by TERRILL LEMKE (Affiliate) Date: 2022.11.18 11:13:52 -07'00'

Manager Signature

Facility Name	Sampling Station	Work Order #
TA-60-0001 Heavy Equipment Yard	MSGP02101	MSGP-65977
TA-60-0001 Heavy Equipment Yard	MSGP02301	MSGP-65978
TA-60-0001 Heavy Equipment Yard	MSGP02401	MSGP-65979
TA-60-0001 Heavy Equipment Yard	MSGP02301	MSGP-65980
TA-60-0001 Heavy Equipment Yard	MSGP02201	MSGP-66015

Los Alamos National Laboratory

Work Order MSGP-65977

MSGP Monitoring Stations
Printed 7/6/2022 - 2:41 PM

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
RG121.9
TA-60-0001 Heavy Equipment Yard
Monitored Outfall (022)
Substantially Identical Outfall (021)
MSGP02101

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-May-June	☐	☐	☑
40	Document the Date/Time Discharge began in the "Reading" field of this line (using mm/dd/yy hh:mm format).	6/17/22 21:20	☐	☐	☑
50	Document the Date/time sample collected in the "Reading" field of this line (using mm/dd/yy hh:mm format).	6/17/22 21:20	☐	☐	☑
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 15:25	☐	☐	☑
70	Document the nature of discharge (e.g., rain, snowmelt). Document the TOTAL amount (in) in the "Reading" field of this line.	Rain 0.31 in	☐	☐	☑
80	Sample collected in first 30 minutes of discharge? If "Failed" or unknown, provide a reason.		☐	☐	☑
	Parameters				
110	Is sample colorless? If "Failed", describe.	Slight tan color	☒	☐	☐
120	Is sample oderless? 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).	Slightly cloudy	☒	☐	☐
140	Is sample free of floating solids? If "Failed", describe if raw or waste material(s) in the comments of this line.	Yellow pollen and vegetation	☒	☐	☐
150	Is sample free of settled solids? If "Failed", provide description (e.g., fine, course).	fine and med. sediment	☒	☐	☐
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.		☐	☐	☑

Labor Report

Completed: 6/20/2022 3:25:00 PM

Report: Alethea Banar

Signature / Name	Date	Signature / Name	Date
ABanar	6/20/2022		

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:

Los Alamos National Laboratory

Work Order MSGP-65978

MSGP Monitoring Stations
Printed 7/6/2022 - 2:41 PM

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
RG121.9
TA-60-0001 Heavy Equipment Yard
Monitored Outfall (022)
Substantially Identical Outfall (023)
MSGP02301

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-May-June	☐	☐	☑
40	Document the Date/Time Discharge began in the "Reading" field of this line (using mm/dd/yy hh:mm format).	6/17/22 21:20	☐	☐	☑
50	Document the Date/time sample collected in the "Reading" field of this line (using mm/dd/yy hh:mm format).	6/17/22 21:20	☐	☐	☑
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 15:20	☐	☐	☑
70	Document the nature of discharge (e.g., rain, snowmelt). Document the TOTAL amount (in) in the "Reading" field of this line.	Rain 0.31 in	☐	☐	☑
80	Sample collected in first 30 minutes of discharge? If "Failed" or unknown, provide a reason.		☐	☐	☑
	Parameters				
110	Is sample colorless? If "Failed", describe.	Slightly grey	☒	☐	☐
120	Is sample oderless? 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).	Fine dark sediment	☒	☐	☐
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.		☐	☐	☑

Labor Report

Completed: 6/20/2022 3:20:00 PM

Report: Alethea Banar

Signature / Name	Date	Signature / Name	Date
	6/20/2022		

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: _____

Los Alamos National Laboratory

Work Order MSGP-65979

MSGP Monitoring Stations
Printed 7/6/2022 - 2:42 PM

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
RG121.9
TA-60-0001 Heavy Equipment Yard
Monitored Outfall (022)
Substantially Identical Outfall (024)
MSGP02401

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-May-June	☐	☐	☑
40	Document the Date/Time Discharge began in the "Reading" field of this line (using mm/dd/yy hh:mm format).	6/17/22 21:20	☐	☐	☑
50	Document the Date/time sample collected in the "Reading" field of this line (using mm/dd/yy hh:mm format).	6/17/22 21:20	☐	☐	☑
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 15:10	☐	☐	☑
70	Document the nature of discharge (e.g., rain, snowmelt). Document the TOTAL amount (in) in the "Reading" field of this line.	Rain 0.31 in	☐	☐	☑
80	Sample collected in first 30 minutes of discharge? If "Failed" or unknown, provide a reason.		☐	☐	☑
Parameters					
110	Is sample colorless? If "Failed", describe.		☐	☐	☑
120	Is sample oderless? 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.	vegetation	☒	☐	☐
150	Is sample free of settled solids? If "Failed", provide description (e.g., fine, course).	fine, med.. & course sediment	☒	☐	☐
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.		☐	☐	☑

Labor Report

Completed: 6/20/2022 3:10:00 PM

Report: Alethea Banar

6/20/2022

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:

Los Alamos National Laboratory

Work Order MSGP-65980

MSGP Monitoring Stations
Printed 7/6/2022 - 2:43 PM

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
RG121.9
TA-60-0001 Heavy Equipment Yard
Monitored Outfall (022)
Substantially Identical Outfall (025)
MSGP02501

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-May-June	☐	☐	☑
40	Document the Date/Time Discharge began in the "Reading" field of this line (using mm/dd/yy hh:mm format).	6/17/22 21:20	☐	☐	☑
50	Document the Date/time sample collected in the "Reading" field of this line (using mm/dd/yy hh:mm format).	6/17/22 21:20	☐	☐	☑
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 15:05	☐	☐	☑
70	Document the nature of discharge (e.g., rain, snowmelt). Document the TOTAL amount (in) in the "Reading" field of this line.	Rain 0.31 in	☐	☐	☑
80	Sample collected in first 30 minutes of discharge? If "Failed" or unknown, provide a reason.		☐	☐	☑
	Parameters				
110	Is sample colorless? If "Failed", describe.		☐	☐	☑
120	Is sample oderless? 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.	vegetation	☒	☐	☐
150	Is sample free of settled solids? If "Failed", provide description (e.g., fine, course).	fine sediment	☒	☐	☐
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.		☐	☐	☑

Labor Report

Completed: 6/20/2022 3:05:00 PM

Report: Alethea Banar

Signature / Name	Date	Signature / Name	Date
	6/20/2022		

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:

Los Alamos National Laboratory

Work Order MSGP-66015

MSGP Monitoring Stations
Printed 7/6/2022 - 2:40 PM

Maintenance Details

Requested: 6/30/2022 10:10:00 AM
Procedure: MSGP Quarterly Visual Assessment (EPC-CP-QP-2105 R1 Form 1)
Last PM: 6/23/2022
Project: Visual Assessments 4/1/22 (P-MSGP-5585)
Reason: MSGP Quarterly Visual Assessment

Target: 6/30/2022
Priority/Type: Normal / Inspection
Department: Utilities and Infrastructure

MSGP Program
RG121.9
TA-60-0001 Heavy Equipment Yard
Monitored Outfall (022)
MSGP02201

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	☐	☐	☑
40	Document the Date/Time Discharge began in the "Reading" field of this line (using mm/dd/yy hh:mm format).	6/25/22 15:09	☐	☐	☑
50	Document the Date/time sample collected in the "Reading" field of this line (using mm/dd/yy hh:mm format).	6/25/22 15:09	☐	☐	☑
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 11:12	☐	☐	☑
70	Document the nature of discharge (e.g., rain, snowmelt). Document the TOTAL amount (in) in the "Reading" field of this line.	rain 1.45	☐	☐	☑
80	Sample collected in first 30 minutes of discharge? If "Failed" or unknown, provide a reason.		☐	☐	☑
Parameters					
110	Is sample colorless? If "Failed", describe.	brown	☒	☐	☐
120	Is sample oderless? If "Failed", provide description (e.g. musty, sewage, sulfur, sour, solvent, petroleum/gas)	musty	☒	☐	☐
130	Is sample clear? If "Failed", provide description (e.g., slightly cloudy, cloudy, opaque).	cloudy	☒	☐	☐
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).	fine	☒	☐	☐
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.		☐	☐	☑

Labor Report

Completed: 6/27/2022 11:12:00 AM

Report: Marwin Shendo

MS

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-60-0001 Heavy Equipment Yard

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 (Affiliate) Digitally signed by TERRILL LEMKE (Affiliate) Date: 2022.11.18 11:19:29 -07'00'

Manager Signature

Facility Name	Sampling Station	Work Order #
TA-60-0001 Heavy Equipment Yard	MSGP02101	MSGP-66053
TA-60-0001 Heavy Equipment Yard	MSGP02301	MSGP-66054
TA-60-0001 Heavy Equipment Yard	MSGP02501	MSGP-66055
TA-60-0001 Heavy Equipment Yard	MSGP02201	MSGP-66061
TA-60-0001 Heavy Equipment Yard	MSGP02401	MSGP-66092

Los Alamos National Laboratory

Work Order MSGP-66053
MSGP Monitoring Stations
Printed 10/4/2022 - 11:47 AM

Maintenance Details

Requested: 7/5/2022 4:42:00 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)

Target: 9/30/2022
Priority/Type: Normal / Inspection
Department: Utilities and Infrastructure

MSGP Program
RG121.9
TA-60-0001 Heavy Equipment Yard
Monitored Outfall (022)
Substantially Identical Discharge Point (021)
MSGP02101

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-Aug-Sept	☐	☐	☑
40	Document the Date/Time Discharge began in the "Reading" field of this line (using mm/dd/yy hh:mm format).	7/1/22 21:25	☐	☐	☑
50	Document the Date/time sample collected in the "Reading" field of this line (using mm/dd/yy hh:mm format).	7/1/22 21:25	☐	☐	☑
60	Document the Date/time sample visually assessed in the "Reading" field of this line (using mm/dd/yy hh:mm format).	7/5/22 09:58	☐	☐	☑
70	Document the nature of discharge (e.g., rain, snowmelt). Document the TOTAL amount (in) in the "Reading" field of this line.	Rain 0.43 in	☐	☐	☑
80	Sample collected in first 30 minutes of discharge? If "Failed" or unknown, provide a reason.		☐	☐	☑
Parameters					
110	Is sample colorless? If "Failed", describe.	Slight grey color	☒	☐	☐
120	Is sample oderless? 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).	Fine sediment	☒	☐	☐
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.		☐	☐	☑

Labor Report

Completed: 7/5/2022 9:58:00 AM

Report: Rain events on 7/1/22 0.43in at 21:25, 7/2/22 0.41in at 20:30, and 7/4/22 0.39in at 12:45.

Alethea Banar

Signature / Name	Date	Signature / Name	Date
	7/5/2022		

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:

Los Alamos National Laboratory

Work Order MSGP-66054
MSGP Monitoring Stations
Printed 10/4/2022 - 11:48 AM

Maintenance Details

Requested: 7/5/2022 4:42:00 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)

Target: 9/30/2022
Priority/Type: Normal / Inspection
Department: Utilities and Infrastructure

MSGP Program
RG121.9
TA-60-0001 Heavy Equipment Yard
Monitored Outfall (022)
Substantially Identical Discharge Point (023)
MSGP02301

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-Aug-Sept	☐	☐	☑
40	Document the Date/Time Discharge began in the "Reading" field of this line (using mm/dd/yy hh:mm format).	7/1/22 21:25	☐	☐	☑
50	Document the Date/time sample collected in the "Reading" field of this line (using mm/dd/yy hh:mm format).	7/1/22 21:25	☐	☐	☑
60	Document the Date/time sample visually assessed in the "Reading" field of this line (using mm/dd/yy hh:mm format).	7/5/22 09:53	☐	☐	☑
70	Document the nature of discharge (e.g., rain, snowmelt). Document the TOTAL amount (in) in the "Reading" field of this line.	Rain 0.43 in	☐	☐	☑
80	Sample collected in first 30 minutes of discharge? If "Failed" or unknown, provide a reason.		☐	☐	☑
Parameters					
110	Is sample colorless? If "Failed", describe.	Slight tan color	☒	☐	☐
120	Is sample oderless? 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).	Fine sediment	☒	☐	☐
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.		☐	☐	☑

Labor Report

Completed: 7/5/2022 9:53:00 AM

Report: Rain events on 7/1/22 0.43in at 21:25, 7/2/22 0.41in at 20:30, and 7/4/22 0.39in at 12:45.

Alethea Banar

AK Banar — Signature / Name
7/5/2022 — 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:

Los Alamos National Laboratory

Work Order MSGP-66055

MSGP Monitoring Stations
Printed 10/4/2022 - 11:50 AM

Maintenance Details

Requested: 7/5/2022 4:42:00 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)

Target: 9/30/2022
Priority/Type: Normal / Inspection
Department: Utilities and Infrastructure

MSGP Program
RG121.9
TA-60-0001 Heavy Equipment Yard
Monitored Outfall (022)
Substantially Identical Discharge Point (025)
MSGP02501

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-Aug-Sept	☐	☐	☑
40	Document the Date/Time Discharge began in the "Reading" field of this line (using mm/dd/yy hh:mm format).	7/1/22 21:25	☐	☐	☑
50	Document the Date/time sample collected in the "Reading" field of this line (using mm/dd/yy hh:mm format).	7/1/22 21:25	☐	☐	☑
60	Document the Date/time sample visually assessed in the "Reading" field of this line (using mm/dd/yy hh:mm format).	7/5/22 09:39	☐	☐	☑
70	Document the nature of discharge (e.g., rain, snowmelt). Document the TOTAL amount (in) in the "Reading" field of this line.	Rain 0.43 in	☐	☐	☑
80	Sample collected in first 30 minutes of discharge? If "Failed" or unknown, provide a reason.		☐	☐	☑
	Parameters				
110	Is sample colorless? If "Failed", describe.	Slight yellow color	☒	☐	☐
120	Is sample oderless? 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.	Vegetation	☒	☐	☐
150	Is sample free of settled solids? If "Failed", provide description (e.g., fine, course).	Fine sediment	☒	☐	☐
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.		☐	☐	☑

Labor Report

Completed: 7/5/2022 9:39:00 AM

Report: Rain events on 7/1/22 0.43in at 21:25, 7/2/22 0.41in at 20:30, and 7/4/22 0.39in at 12:45.

Alethea Banar

Signature / Name	Date	Signature / Name	Date
AK Banar	7/5/2022		

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:

Los Alamos National Laboratory

Work Order MSGP-66061

MSGP Monitoring Stations
Printed 10/4/2022 - 11:47 AM

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)

Target: 9/30/2022
Priority/Type: Normal / Inspection
Department: Utilities and Infrastructure

MSGP Program
RG121.9
TA-60-0001 Heavy Equipment Yard
Monitored Outfall (022)
MSGP02201

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	☐	☐	☑
40	Document the Date/Time Discharge began in the "Reading" field of this line (using mm/dd/yy hh:mm format).	7/1/22 21:36	☐	☐	☑
50	Document the Date/time sample collected in the "Reading" field of this line (using mm/dd/yy hh:mm format).	7/1/22 21:36	☐	☐	☑
60	Document the Date/time sample visually assessed in the "Reading" field of this line (using mm/dd/yy hh:mm format).	7/5/22 14:11	☐	☐	☑
70	Document the nature of discharge (e.g., rain, snowmelt). Document the TOTAL amount (in) in the "Reading" field of this line.	rain .43	☐	☐	☑
80	Sample collected in first 30 minutes of discharge? If "Failed" or unknown, provide a reason.		☐	☐	☑
	Parameters				
110	Is sample colorless? If "Failed", describe.	brown	☒	☐	☐
120	Is sample oderless? If "Failed", provide description (e.g. musty, sewage, sulfur, sour, solvent, petroleum/gas)	musty	☒	☐	☐
130	Is sample clear? If "Failed", provide description (e.g., slightly cloudy, cloudy, opaque).	cloudy	☒	☐	☐
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).	fine	☒	☐	☐
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.		☐	☐	☑

Labor Report

Completed: 7/5/2022 2:11:00 PM

Report: Marwin Shendo

Signature / Name	Date	Signature / Name	Date
MSD	7/7/2022		

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: _____

Los Alamos National Laboratory

Work Order MSGP-66092

MSGP Monitoring Stations
Printed 10/4/2022 - 11:49 AM

Maintenance Details

Requested: 7/19/2022 12:38:00 PM
Procedure: MSGP Quarterly Visual Assessment (EPC-CP-QP-2105 R1 Form 1)
Last PM: 7/18/2022
Project: Visual Assessments 7/1/22 (P-MSGP-5591)

Target: 9/30/2022
Priority/Type: Normal / Inspection
Department: Utilities and Infrastructure

MSGP Program
RG121.9
TA-60-0001 Heavy Equipment Yard
Monitored Outfall (022)
Substantially Identical Discharge Point (024)
MSGP02401

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	☐	☐	☑
40	Document the Date/Time Discharge began in the "Reading" field of this line (using mm/dd/yy hh:mm format).	7/14/22 22:55	☐	☐	☑
50	Document the Date/time sample collected in the "Reading" field of this line (using mm/dd/yy hh:mm format).	7/14/22 22:55	☐	☐	☑
60	Document the Date/time sample visually assessed in the "Reading" field of this line (using mm/dd/yy hh:mm format).	7/18/22 08:30	☐	☐	☑
70	Document the nature of discharge (e.g., rain, snowmelt). Document the TOTAL amount (in) in the "Reading" field of this line.	Rain 0.1in	☐	☐	☑
80	Sample collected in first 30 minutes of discharge? If "Failed" or unknown, provide a reason.		☐	☐	☑
Parameters					
110	Is sample colorless? If "Failed", describe.		☐	☐	☑
120	Is sample oderless? 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).	Small amt of fine sediment	☒	☐	☐
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.		☐	☐	☑

Labor Report

Completed: 7/18/2022 8:30:00 AM

Report: Alethea Banar

Signature / Name	Date	Signature / Name	Date
	7/19/2022		

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-60-0001 Heavy Equipment Yard

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 (Affiliate) Digitally signed by TERRILL LEMKE (Affiliate) Date: 2023.01.09 17:30:14 -07'00'

Manager Signature

Facility Name	Sampling Station	Work Order #
TA-60-0001 Heavy Equipment Yard	MSGP02101	MSGP-66167
TA-60-0001 Heavy Equipment Yard	MSGP02201	MSGP-66181
TA-60-0001 Heavy Equipment Yard	MSGP02301	MSGP-66168
TA-60-0001 Heavy Equipment Yard	MSGP02401	MSGP-66169
TA-60-0001 Heavy Equipment Yard	MSGP02501	MSGP-66170

Los Alamos National Laboratory

Work Order MSGP-66167

MSGP Monitoring Stations
Printed 11/1/2022 - 12:38 PM

Maintenance Details

Requested: 10/3/2022 1:11:00 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
RG121.9
TA-60-0001 Heavy Equipment Yard
Monitored Outfall (022)
Substantially Identical Discharge Point (021)
MSGP02101

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	☐	☐	☑
40	Document the Date/Time Discharge began in the "Reading" field of this line (using mm/dd/yy hh:mm format).	10/2/22 8:40	☐	☐	☑
50	Document the Date/time sample collected in the "Reading" field of this line (using mm/dd/yy hh:mm format).	10/2/22 8:40	☐	☐	☑
60	Document the Date/time sample visually assessed in the "Reading" field of this line (using mm/dd/yy hh:mm format).	10/3/22 10:28	☐	☐	☑
70	Document the nature of discharge (e.g., rain, snowmelt). Document the TOTAL amount (in) in the "Reading" field of this line.	Rain 0.26 in	☐	☐	☑
80	Sample collected in first 30 minutes of discharge? If "Failed" or unknown, provide a reason.		☐	☐	☑
	Parameters				
110	Is sample colorless? If "Failed", describe.	Slight tan color	☒	☐	☐
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).	Fine sediment	☐	☐	☑
160	Is sample free of suspended solids? If "Failed", provide description (e.g., fine, course).	Small amt fine sediment	☐	☐	☑
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.		☐	☐	☑

Labor Report

Completed: 10/3/2022 10:28:00 AM

Report: Alethea Banar

Signature / Name	Date	Signature / Name	Date
A K Banar	10/3/2022		

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:

Los Alamos National Laboratory

Work Order MSGP-66181
MSGP Monitoring Stations
Printed 10/31/2022 - 5:54 PM

Maintenance Details

Requested: 10/6/2022 2:52:00 PM
Procedure: MSGP Quarterly Visual Assessment (EPC-CP-QP-2105 R1 Form 1)
Last PM: 10/6/2022
Project: Visual Assessments 10/1/22 (P-MSGP-5603)
Reason: MSGP Quarterly Visual Assessment

Target: 12/31/2022
Priority/Type: Normal / Inspection
Department: Utilities and Infrastructure

MSGP Program
RG121.9
TA-60-0001 Heavy Equipment Yard
Monitored Outfall (022)
MSGP02201

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	☐	☐	☑
40	Document the Date/Time Discharge began in the "Reading" field of this line (using mm/dd/yy hh:mm format).	10/5/22 @ 5:45	☐	☐	☑
50	Document the Date/time sample collected in the "Reading" field of this line (using mm/dd/yy hh:mm format).	10/5/22 @ 5:45	☐	☐	☑
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 @ 12:02	☐	☐	☑
70	Document the nature of discharge (e.g., rain, snowmelt). Document the TOTAL amount (in) in the "Reading" field of this line.	rain 0.11 inch	☐	☐	☑
80	Sample collected in first 30 minutes of discharge? If "Failed" or unknown, provide a reason.		☐	☐	☑
Parameters					
110	Is sample colorless? If "Failed", describe.	brown	☒	☐	☐
120	Is sample odorless? If "Failed", provide description (e.g. musty, sewage, sulfur, sour, solvent, petroleum/gas)	musty	☒	☐	☐
130	Is sample clear? If "Failed", provide description (e.g., slightly cloudy, cloudy, opaque).	cloudy	☒	☐	☐
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).	fine	☒	☐	☐
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.		☐	☐	☑

Labor Report

Completed: 10/6/2022 12:02:00 PM

Report: Marwin Shendo

Signature / Name	Date	Signature / Name	Date
MSh	10/12/2022		

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:

Los Alamos National Laboratory

Work Order MSGP-66168

MSGP Monitoring Stations
Printed 11/1/2022 - 12:38 PM

Maintenance Details

Requested: 10/3/2022 1:11:00 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
RG121.9
TA-60-0001 Heavy Equipment Yard
Monitored Outfall (022)
Substantially Identical Discharge Point (023)
MSGP02301

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	☐	☐	☑
40	Document the Date/Time Discharge began in the "Reading" field of this line (using mm/dd/yy hh:mm format).	10/2/22 8:40	☐	☐	☑
50	Document the Date/time sample collected in the "Reading" field of this line (using mm/dd/yy hh:mm format).	10/2/22 8:40	☐	☐	☑
60	Document the Date/time sample visually assessed in the "Reading" field of this line (using mm/dd/yy hh:mm format).	10/3/22 10:26	☐	☐	☑
70	Document the nature of discharge (e.g., rain, snowmelt). Document the TOTAL amount (in) in the "Reading" field of this line.	Rain 0.26 in	☐	☐	☑
80	Sample collected in first 30 minutes of discharge? If "Failed" or unknown, provide a reason.		☐	☐	☑
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.	Vegetation and debris	☒	☐	☐
150	Is sample free of settled solids? If "Failed", provide description (e.g., fine, course).	Fine sediment	☒	☐	☐
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.		☐	☐	☑

Labor Report

Completed: 10/3/2022 10:26:00 AM

Report: Alethea Banar

Signature / Name	Date	Signature / Name	Date
	10/3/2022		

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:

Los Alamos National Laboratory

Work Order MSGP-66169

MSGP Monitoring Stations
Printed 11/1/2022 - 12:39 PM

Maintenance Details

Requested: 10/3/2022 1:11:00 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
RG121.9
TA-60-0001 Heavy Equipment Yard
Monitored Outfall (022)
Substantially Identical Discharge Point (024)
MSGP02401

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	☐	☐	☑
40	Document the Date/Time Discharge began in the "Reading" field of this line (using mm/dd/yy hh:mm format).	10/2/22 8:40	☐	☐	☑
50	Document the Date/time sample collected in the "Reading" field of this line (using mm/dd/yy hh:mm format).	10/2/22 8:40	☐	☐	☑
60	Document the Date/time sample visually assessed in the "Reading" field of this line (using mm/dd/yy hh:mm format).	10/3/22 10:18	☐	☐	☑
70	Document the nature of discharge (e.g., rain, snowmelt). Document the TOTAL amount (in) in the "Reading" field of this line.	Rain 0.26 in	☐	☐	☑
80	Sample collected in first 30 minutes of discharge? If "Failed" or unknown, provide a reason.		☐	☐	☑
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).	Fine sediment	☒	☐	☐
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.		☐	☐	☑

Labor Report

Completed: 10/3/2022 10:18:00 AM

Report: Alethea Banar

Signature / Name	Date	Signature / Name	Date
	10/3/2022		

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: _____

Los Alamos National Laboratory

Work Order MSGP-66170

MSGP Monitoring Stations
Printed 11/1/2022 - 12:40 PM

Maintenance Details

Requested: 10/3/2022 1:11:00 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
RG121.9
TA-60-0001 Heavy Equipment Yard
Monitored Outfall (022)
Substantially Identical Discharge Point (025)
MSGP02501

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	☐	☐	☑
40	Document the Date/Time Discharge began in the "Reading" field of this line (using mm/dd/yy hh:mm format).	10/2/22 8:40	☐	☐	☑
50	Document the Date/time sample collected in the "Reading" field of this line (using mm/dd/yy hh:mm format).	10/2/22 8:40	☐	☐	☑
60	Document the Date/time sample visually assessed in the "Reading" field of this line (using mm/dd/yy hh:mm format).	10/3/22 10:15	☐	☐	☑
70	Document the nature of discharge (e.g., rain, snowmelt). Document the TOTAL amount (in) in the "Reading" field of this line.	Rain 0.26 in	☐	☐	☑
80	Sample collected in first 30 minutes of discharge? If "Failed" or unknown, provide a reason.		☐	☐	☑
	Parameters				
110	Is sample colorless? If "Failed", describe.	Slight tan color	☒	☐	☐
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).	Slightly cloufy	☒	☐	☐
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).	Fine sediment	☒	☐	☐
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.		☐	☐	☑

Labor Report

Completed: 10/3/2022 10:15:00 AM

Report: Alethea Banar

10/3/2022

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-60-0001 Heavy Equipment Yard

Quarterly Visual Assessment Forms,
Third Quarter, January through March 2023

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 (Affiliate) Digitally signed by TERRILL LEMKE (Affiliate) Date: 2023.05.26 16:07:43 -06'00'

Manager Signature

Facility Name	Sampling Station	Work Order #
TA-60-0001 Heavy Equipment Yard	MSGP02101	MSGP-66365
TA-60-0001 Heavy Equipment Yard	MSGP02301	MSGP-66366
TA-60-0001 Heavy Equipment Yard	MSGP02401	MSGP-66367
TA-60-0001 Heavy Equipment Yard	MSGP02501	MSGP-66368
TA-60-0001 Heavy Equipment Yard	MSGP02201	MSGP-66480

Los Alamos National Laboratory

Work Order MSGP-66365
MSGP Monitoring Stations
Printed 4/13/2023 - 2:52 PM

Maintenance Details

Requested: 1/10/2023 4:58:00 PM
Procedure: MSGP Quarterly Visual Assessment (EPC-CP-QP-2105 R1 Form 1)
Last PM: 1/5/2023
Project: Visual Assessments 1/1/23 (P-MSGP-5618)

Target: 3/31/2023
Priority/Type: Normal / Inspection
Department: Utilities and Infrastructure

MSGP Program
RG121.9
TA-60-0001 Heavy Equipment Yard
Monitored Outfall (022)
Substantially Identical Discharge Point (021)
MSGP02101

Reason: MSGP Quarterly Visual Assessment

Contact:
Phone:

Tasks

#	Description	Meas.	No	N/A	Yes
The result of this VA applies to associated SIDPs as defined in the SWPPP, where applicable.					
Sample information					
30	Document the monitoring period.	Jan-Feb-Mar	☐	☐	☑
40	Document the Date/Time Discharge began in the "Reading" field of this line (using mm/dd/yy hh:mm format).	1/1/23 21:15	☐	☐	☑
50	Document the Date/time sample collected in the "Reading" field of this line (using mm/dd/yy hh:mm format).	1/1/23 21:15	☐	☐	☑
60	Document the Date/time sample visually assessed in the "Reading" field of this line (using mm/dd/yy hh:mm format).	1/5/23 16:05	☐	☐	☑
70	Document the nature of discharge (e.g., rain, snowmelt). Document the TOTAL amount (in) in the "Reading" field of this line.	Rain and snow mix 0.34 in.	☐	☐	☑
80	Sample collected in first 30 minutes of discharge? If "Failed" or unknown, provide a reason.		☐	☐	☑
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).	Slightly cloudy	☒	☐	☐
140	Is sample free of floating solids? If "Failed", describe if raw or waste material(s) in the comments of this line.	Vegetation	☒	☐	☐
150	Is sample free of settled solids? If "Failed", provide description (e.g., fine, course).	Medium and course sediment	☒	☐	☐
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.		☐	☐	☑

Labor Report

Completed: 1/5/2023 4:05:00 PM

Report: Alethea Banar

Signature / Name	Date	Signature / Name	Date
	1/11/2023		

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:

Los Alamos National Laboratory

Work Order MSGP-66366

MSGP Monitoring Stations
Printed 4/13/2023 - 2:50 PM

Maintenance Details

Requested: 1/10/2023 4:58:00 PM
Procedure: MSGP Quarterly Visual Assessment (EPC-CP-QP-2105 R1 Form 1)
Last PM: 1/5/2023
Project: Visual Assessments 1/1/23 (P-MSGP-5618)

Target: 3/31/2023
Priority/Type: Normal / Inspection
Department: Utilities and Infrastructure

MSGP Program
RG121.9
TA-60-0001 Heavy Equipment Yard
Monitored Outfall (022)
Substantially Identical Discharge Point (023)
MSGP02301

Reason: MSGP Quarterly Visual Assessment

Contact:
Phone:

Tasks

#	Description	Meas.	No	N/A	Yes
	The result of this VA applies to associated SIDPs as defined in the SWPPP, where applicable.				
	Sample information				
30	Document the monitoring period.	Jan-Feb-Mar	☐	☐	☑
40	Document the Date/Time Discharge began in the "Reading" field of this line (using mm/dd/yy hh:mm format).	1/1/23 21:15	☐	☐	☑
50	Document the Date/time sample collected in the "Reading" field of this line (using mm/dd/yy hh:mm format).	1/1/23 21:15	☐	☐	☑
60	Document the Date/time sample visually assessed in the "Reading" field of this line (using mm/dd/yy hh:mm format).	1/5/23 15:55	☐	☐	☑
70	Document the nature of discharge (e.g., rain, snowmelt). Document the TOTAL amount (in) in the "Reading" field of this line.	Rain and snow mix 0.34 in.	☐	☐	☑
80	Sample collected in first 30 minutes of discharge? If "Failed" or unknown, provide a reason.		☐	☐	☑
	Parameters				
110	Is sample colorless? If "Failed", describe.	Slight grey color	☒	☐	☐
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).	Fine sediment	☒	☐	☐
160	Is sample free of suspended solids? If "Failed", provide description (e.g., fine, course).	Fine sediment	☒	☐	☐
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.		☐	☐	☑

Labor Report

Completed: 1/5/2023 3:55:00 PM

Report: Alethea Banar

Signature / Name	Date	Signature / Name	Date
	1/11/2023		

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:

Los Alamos National Laboratory

Work Order MSGP-66367
MSGP Monitoring Stations
Printed 4/13/2023 - 2:56 PM

Maintenance Details

Requested: 1/10/2023 4:58:00 PM
Procedure: MSGP Quarterly Visual Assessment (EPC-CP-QP-2105 R1 Form 1)
Last PM: 1/5/2023
Project: Visual Assessments 1/1/23 (P-MSGP-5618)

Target: 3/31/2023
Priority/Type: Normal / Inspection
Department: Utilities and Infrastructure

MSGP Program
RG121.9
TA-60-0001 Heavy Equipment Yard
Monitored Outfall (022)
Substantially Identical Discharge Point (024)
MSGP02401

Reason: MSGP Quarterly Visual Assessment

Contact:
Phone:

Tasks

#	Description	Meas.	No	N/A	Yes
The result of this VA applies to associated SIDPs as defined in the SWPPP, where applicable.					
Sample information					
30	Document the monitoring period.	Jan-Feb-Mar	☐	☐	☑
40	Document the Date/Time Discharge began in the "Reading" field of this line (using mm/dd/yy hh:mm format).	1/1/23 21:15	☐	☐	☑
50	Document the Date/time sample collected in the "Reading" field of this line (using mm/dd/yy hh:mm format).	1/1/23 21:15	☐	☐	☑
60	Document the Date/time sample visually assessed in the "Reading" field of this line (using mm/dd/yy hh:mm format).	1/5/23 15:40	☐	☐	☑
70	Document the nature of discharge (e.g., rain, snowmelt). Document the TOTAL amount (in) in the "Reading" field of this line.	Rain and snow mix 0.34 in.	☐	☐	☑
80	Sample collected in first 30 minutes of discharge? If "Failed" or unknown, provide a reason.		☐	☐	☑
Parameters					
110	Is sample colorless? If "Failed", describe.	Slight grey color	☒	☐	☐
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).	Slightly cloudy	☒	☐	☐
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).	Medium and course sediment	☒	☐	☐
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.		☐	☐	☑

Labor Report

1/5/2023
Completed: 3:40:00 PM

Report: Alethea Banar

Signature / Name	Date	Signature / Name	Date
	1/11/2023		

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:

Los Alamos National Laboratory

Work Order MSGP-66368
MSGP Monitoring Stations
Printed 4/13/2023 - 2:56 PM

Maintenance Details

Requested: 1/10/2023 4:58:00 PM
Procedure: MSGP Quarterly Visual Assessment (EPC-CP-QP-2105 R1 Form 1)
Last PM: 1/5/2023
Project: Visual Assessments 1/1/23 (P-MSGP-5618)

Target: 3/31/2023
Priority/Type: Normal / Inspection
Department: Utilities and Infrastructure

MSGP Program
RG121.9
TA-60-0001 Heavy Equipment Yard
Monitored Outfall (022)
Substantially Identical Discharge Point (025)
MSGP02501

Reason: MSGP Quarterly Visual Assessment

Contact:
Phone:

Tasks

#	Description	Meas.	No	N/A	Yes
	The result of this VA applies to associated SIDPs as defined in the SWPPP, where applicable.				
	Sample information				
30	Document the monitoring period.	Jan-Feb-Mar	☐	☐	☑
40	Document the Date/Time Discharge began in the "Reading" field of this line (using mm/dd/yy hh:mm format).	1/1/23 21:15	☐	☐	☑
50	Document the Date/time sample collected in the "Reading" field of this line (using mm/dd/yy hh:mm format).	1/1/23 21:15	☐	☐	☑
60	Document the Date/time sample visually assessed in the "Reading" field of this line (using mm/dd/yy hh:mm format).	1/5/23 15:30	☐	☐	☑
70	Document the nature of discharge (e.g., rain, snowmelt). Document the TOTAL amount (in) in the "Reading" field of this line.	Rain and snow mix 0.34 in.	☐	☐	☑
80	Sample collected in first 30 minutes of discharge? If "Failed" or unknown, provide a reason.		☐	☐	☑
	Parameters				
110	Is sample colorless? If "Failed", describe.	Slight tan color	☐	☐	☑
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).	Slightly cloudy	☒	☐	☐
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).	Fine and medium sediment	☒	☐	☐
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.		☐	☐	☑

Labor Report

Completed: 1/5/2023 3:30:00 PM

Report: Alethea Banar

Signature / Name	Date	Signature / Name	Date
	1/11/2023		

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:

Los Alamos National Laboratory

Work Order MSGP-66480
MSGP Monitoring Stations
Printed 4/13/2023 - 2:48 PM

Maintenance Details

Requested By: Banar, Alethea on 3/2/2023 3:47:00 PM
Taken By: Banar, Alethea
Procedure: MSGP Quarterly Visual Assessment (MSGP Quarterly Visual Ass)
Last PM: 3/3/2023
Project: Visual Assessments 1/1/23 (P-MSGP-5618)

Target: 3/31/2023
Priority/Type: / Inspection
Department: Utilities and Infrastructure

MSGP Program
RG121.9
TA-60-0001 Heavy Equipment Yard
Monitored Outfall (022)
MSGP02201

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 SIDPs as defined in the SWPPP, where applicable.					
Sample information					
30	Document the monitoring period.	jan-mar	☐	☐	☑
40	Document the Date/Time Discharge began in the "Reading" field of this line (using mm/dd/yy hh:mm format).	3/2/23 13:32	☐	☐	☑
50	Document the Date/time sample collected in the "Reading" field of this line (using mm/dd/yy hh:mm format).	3/2/23 13:32	☐	☐	☑
60	Document the Date/time sample visually assessed in the "Reading" field of this line (using mm/dd/yy hh:mm format).	3/3/23 15:12	☐	☐	☑
70	Document the nature of discharge (e.g., rain, snowmelt). Document the TOTAL amount (in) in the "Reading" field of this line.	snowmelt	☐	☐	☑
80	Sample collected in first 30 minutes of discharge? If "Failed" or unknown, provide a reason.		☐	☐	☑
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)	musty	☒	☐	☐
130	Is sample clear? If "Failed", provide description (e.g., slightly cloudy, cloudy, opaque).	slightly cloudy	☒	☐	☐
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.		☐	☐	☑

Labor Report

Completed: 3/3/2023 3:12:00 PM

Report: Marwin Shendo

MSR.

Signature / Name	Date	Signature / Name	Date
	3/13/2023		

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-60-0001 Heavy Equipment Yard

Quarterly Visual Assessment Forms,
Fourth Quarter, April through June 2023

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 Stormwater Permitting/Compliance Team Leader
Los Alamos National Laboratory

TERRILL LEMKE (Affiliate)
Digitally signed by TERRILL LEMKE (Affiliate)
Date: 2023.09.20 16:46:26 -06'00'

Manager Signature

Facility Name	Sampling Station	Work Order #
TA-60-0001 Heavy Equipment Yard	MSGP02101	MSGP-66676
TA-60-0001 Heavy Equipment Yard	MSGP02301	MSGP-66677
TA-60-0001 Heavy Equipment Yard	MSGP02401	MSGP-66678
TA-60-0001 Heavy Equipment Yard	MSGP02501	MSGP-66679
TA-60-0001 Heavy Equipment Yard	MSGP02201	MSGP-66685

Los Alamos National Laboratory

Work Order MSGP-66676

MSGP Monitoring Stations
Printed 7/3/2023 - 2:07 PM

Maintenance Details

Requested: 5/16/2023 5:35:00 PM
Procedure: MSGP Quarterly Visual Assessment (EPC-CP-QP-2105 R1 Form 1)
Last PM: 5/16/2023
Project: Visual Assessments 3/1/23 (P-MSGP-5650)

Target: 6/30/2023
Priority/Type: Normal / Inspection
Department: Utilities and Infrastructure

MSGP Program
RG121.9
TA-60-0001 Heavy Equipment Yard
Monitored Outfall (022)
Substantially Identical Discharge Point (021)
MSGP02101

Reason: MSGP Quarterly Visual Assessment

Contact:
Phone:

Tasks

#	Description	Meas.	No	N/A	Yes
	The result of this VA applies to associated SIDPs as defined in the SWPPP, where applicable.				
	Sample information				
30	Document the monitoring period.	Apr-Jun	☐	☐	☑
40	Document the Date/Time Discharge began in the "Reading" field of this line (using mm/dd/yy hh:mm format).	5/15/23 18:30	☐	☐	☑
50	Document the Date/time sample collected in the "Reading" field of this line (using mm/dd/yy hh:mm format).	5/15/23 18:30	☐	☐	☑
60	Document the Date/time sample visually assessed in the "Reading" field of this line (using mm/dd/yy hh:mm format).	5/16/23 15:05	☐	☐	☑
70	Document the nature of discharge (e.g., rain, snowmelt). Document the TOTAL amount (in) in the "Reading" field of this line.	Rain 0.46 in.	☐	☐	☑
80	Sample collected in first 30 minutes of discharge? If "Failed" or unknown, provide a reason.		☐	☐	☑
	Parameters				
110	Is sample colorless? If "Failed", describe.	slight tan	☒	☐	☐
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).	small amount fine sediment	☒	☐	☐
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.		☐	☐	☑

Labor Report

Completed: 5/16/2023 3:05:00 PM

Report: Alethea Banar

	5/16/2023		
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 Stormwater Permitting/Compliance Team Leader

Signature: (See signature on file) Date:

Los Alamos National Laboratory

Work Order MSGP-66677

MSGP Monitoring Stations
Printed 7/3/2023 - 2:06 PM

Maintenance Details

Requested: 5/16/2023 5:35:00 PM
Procedure: MSGP Quarterly Visual Assessment (EPC-CP-QP-2105 R1 Form 1)
Last PM: 5/16/2023
Project: Visual Assessments 3/1/23 (P-MSGP-5650)

Target: 6/30/2023
Priority/Type: Normal / Inspection
Department: Utilities and Infrastructure

MSGP Program
RG121.9
TA-60-0001 Heavy Equipment Yard
Monitored Outfall (022)
Substantially Identical Discharge Point (023)
MSGP02301

Reason: MSGP Quarterly Visual Assessment

Contact:
Phone:

Tasks

#	Description	Meas.	No	N/A	Yes
	The result of this VA applies to associated SIDPs as defined in the SWPPP, where applicable.				
	Sample information				
30	Document the monitoring period.	Apr-Jun	☐	☐	☑
40	Document the Date/Time Discharge began in the "Reading" field of this line (using mm/dd/yy hh:mm format).	5/15/23 18:30	☐	☐	☑
50	Document the Date/time sample collected in the "Reading" field of this line (using mm/dd/yy hh:mm format).	5/15/23 18:30	☐	☐	☑
60	Document the Date/time sample visually assessed in the "Reading" field of this line (using mm/dd/yy hh:mm format).	5/16/23 14:50	☐	☐	☑
70	Document the nature of discharge (e.g., rain, snowmelt). Document the TOTAL amount (in) in the "Reading" field of this line.	Rain 0.46 in.	☐	☐	☑
80	Sample collected in first 30 minutes of discharge? If "Failed" or unknown, provide a reason.		☐	☐	☑
	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.	vegetation	☒	☐	☐
150	Is sample free of settled solids? If "Failed", provide description (e.g., fine, course).	fine and medium sediment	☒	☐	☐
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.		☐	☐	☑

Labor Report

Completed: 5/16/2023 2:50:00 PM

Report: Alethea Banar

Signature / Name	Date	Signature / Name	Date
	5/16/2023		

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 Stormwater Permitting/Compliance Team Leader

Signature: (See signature on file) Date:

Los Alamos National Laboratory

Work Order MSGP-66678

MSGP Monitoring Stations
Printed 7/3/2023 - 2:05 PM

Maintenance Details

Requested: 5/16/2023 5:35:00 PM
Procedure: MSGP Quarterly Visual Assessment (EPC-CP-QP-2105 R1 Form 1)
Last PM: 5/16/2023
Project: Visual Assessments 3/1/23 (P-MSGP-5650)

Target: 6/30/2023
Priority/Type: Normal / Inspection
Department: Utilities and Infrastructure

MSGP Program
RG121.9
TA-60-0001 Heavy Equipment Yard
Monitored Outfall (022)
Substantially Identical Discharge Point (024)
MSGP02401

Reason: MSGP Quarterly Visual Assessment

Contact:
Phone:

Tasks

#	Description	Meas.	No	N/A	Yes
	The result of this VA applies to associated SIDPs as defined in the SWPPP, where applicable.				
	Sample information				
30	Document the monitoring period.	Apr-Jun	☐	☐	☑
40	Document the Date/Time Discharge began in the "Reading" field of this line (using mm/dd/yy hh:mm format).	5/15/23 18:30	☐	☐	☑
50	Document the Date/time sample collected in the "Reading" field of this line (using mm/dd/yy hh:mm format).	5/15/23 18:30	☐	☐	☑
60	Document the Date/time sample visually assessed in the "Reading" field of this line (using mm/dd/yy hh:mm format).	5/16/23 15:10	☐	☐	☑
70	Document the nature of discharge (e.g., rain, snowmelt). Document the TOTAL amount (in) in the "Reading" field of this line.	Rain 0.46 in.	☐	☐	☑
80	Sample collected in first 30 minutes of discharge? If "Failed" or unknown, provide a reason.		☐	☐	☑
	Parameters				
110	Is sample colorless? If "Failed", describe.	slight tan color	☒	☐	☐
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.	vegetation	☒	☐	☐
150	Is sample free of settled solids? If "Failed", provide description (e.g., fine, course).	fine sediment	☒	☐	☐
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.		☐	☐	☑

Labor Report

Completed: 5/16/2023 3:10:00 PM

Report: Alethea Banar

Signature / Name	Date	Signature / Name	Date
	5/16/2023		

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 Stormwater Permitting/Compliance Team Leader

Signature: (See signature on file) Date:

Los Alamos National Laboratory

Work Order MSGP-66679
MSGP Monitoring Stations
Printed 7/3/2023 - 2:05 PM

Maintenance Details

Requested: 5/16/2023 5:35:00 PM
Procedure: MSGP Quarterly Visual Assessment (EPC-CP-QP-2105 R1 Form 1)
Last PM: 5/16/2023
Project: Visual Assessments 3/1/23 (P-MSGP-5650)

Target: 6/30/2023
Priority/Type: Normal / Inspection
Department: Utilities and Infrastructure

MSGP Program
RG121.9
TA-60-0001 Heavy Equipment Yard
Monitored Outfall (022)
Substantially Identical Discharge Point (025)
MSGP02501

Reason: MSGP Quarterly Visual Assessment

Contact:
Phone:

Tasks

#	Description	Meas.	No	N/A	Yes
	The result of this VA applies to associated SIDPs as defined in the SWPPP, where applicable.				
	Sample information				
30	Document the monitoring period.	Apr-Jun	☐	☐	☑
40	Document the Date/Time Discharge began in the "Reading" field of this line (using mm/dd/yy hh:mm format).	5/15/23 18:30	☐	☐	☑
50	Document the Date/time sample collected in the "Reading" field of this line (using mm/dd/yy hh:mm format).	5/15/23 18:30	☐	☐	☑
60	Document the Date/time sample visually assessed in the "Reading" field of this line (using mm/dd/yy hh:mm format).	5/16/23 15:15	☐	☐	☑
70	Document the nature of discharge (e.g., rain, snowmelt). Document the TOTAL amount (in) in the "Reading" field of this line.	Rain 0.46 in.	☐	☐	☑
80	Sample collected in first 30 minutes of discharge? If "Failed" or unknown, provide a reason.		☐	☐	☑
	Parameters				
110	Is sample colorless? If "Failed", describe.	brown	☒	☐	☐
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).	slightly cloudy	☒	☐	☐
140	Is sample free of floating solids? If "Failed", describe if raw or waste material(s) in the comments of this line.	vegetation & small pieces of plastic ribbon	☒	☐	☐
150	Is sample free of settled solids? If "Failed", provide description (e.g., fine, course).	fine, med, & course sediment	☒	☐	☐
160	Is sample free of suspended solids? If "Failed", provide description (e.g., fine, course).	fine sediment	☒	☐	☐
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.		☐	☐	☑

Labor Report

5/16/2023
Completed: 3:15:00 PM

Report: Alethea Banar

Signature / Name	Date	Signature / Name	Date
	5/16/2023		

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 Stormwater Permitting/Compliance Team Leader

Signature: (See signature on file) Date:

Los Alamos National Laboratory

Work Order MSGP-66685

MSGP Monitoring Stations
Printed 7/3/2023 - 2:03 PM

Maintenance Details

Requested: 5/18/2023 4:35:00 PM
Procedure: MSGP Quarterly Visual Assessment (EPC-CP-QP-2105 R1 Form 1)
Last PM: 5/16/2023
Project: Visual Assessments 3/1/23 (P-MSGP-5650)

Target: 6/30/2023
Priority/Type: Normal / Inspection
Department: Utilities and Infrastructure

MSGP Program
RG121.9
TA-60-0001 Heavy Equipment Yard
Monitored Outfall (022)
MSGP02201

Contact:
Phone:

Reason: MSGP Quarterly Visual Assessment

Tasks

#	Description	Meas.	No	N/A	Yes
The result of this VA applies to associated SIDPs as defined in the SWPPP, where applicable.					
Sample information					
30	Document the monitoring period.	Apr-Jun	☐	☐	☑
40	Document the Date/Time Discharge began in the "Reading" field of this line (using mm/dd/yy hh:mm format).	5/15/23 @ 20:28	☐	☐	☑
50	Document the Date/time sample collected in the "Reading" field of this line (using mm/dd/yy hh:mm format).	5/15/23 @ 20:28	☐	☐	☑
60	Document the Date/time sample visually assessed in the "Reading" field of this line (using mm/dd/yy hh:mm format).	5/16/23 @ 11:34	☐	☐	☑
70	Document the nature of discharge (e.g., rain, snowmelt). Document the TOTAL amount (in) in the "Reading" field of this line.	rain .46	☐	☐	☑
80	Sample collected in first 30 minutes of discharge? If "Failed" or unknown, provide a reason.		☐	☐	☑
Parameters					
110	Is sample colorless? If "Failed", describe.	brown	☒	☐	☐
120	Is sample odorless? If "Failed", provide description (e.g. musty, sewage, sulfur, sour, solvent, petroleum/gas)	musty	☒	☐	☐
130	Is sample clear? If "Failed", provide description (e.g., slightly cloudy, cloudy, opaque).	cloudy	☒	☐	☐
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).	very little fine	☒	☐	☐
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.		☐	☐	☑

Labor Report

Completed: 5/16/2023 11:34:00 AM

Report: Marwin Shendo

Signature / Name	Date	Signature / Name	Date
	5/22/2023		

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 Stormwater Permitting/Compliance Team Leader

Signature: (See signature on file) Date:

NMR050013 MSGP 2021
TA-60-0001 Heavy Equipment Yard

Quarterly Visual Assessment Forms,
First Quarter, July through September 2023

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 (Affiliate) Digitally signed by TERRILL LEMKE (Affiliate) Date: 2024.01.08 12:45:24 -07'00'

Manager Signature

Facility Name	Sampling Station	Inspection #
TA-60-0001 Heavy Equipment Yard	MSGP02101	MSGP-QRHId-407
TA-60-0001 Heavy Equipment Yard	MSGP02201	MSGP-QRHId-481
TA-60-0001 Heavy Equipment Yard	MSGP02301	MSGP-QRHId-429
TA-60-0001 Heavy Equipment Yard	MSGP02401	MSGP-QRHId-405
TA-60-0001 Heavy Equipment Yard	MSGP02501	MSGP-QRHId-404

MSGP Record Print - Non-Employee Related Questionnaire (Clone)

Questionnaire

Details

Date Of Response *	07/24/2023	**Questionnaire** *	MSGP Visual Assessment (MSGP-VISUAL)
Source	Environment Inspection/Survey Program	**QRHId**	407
Location	MSGP02101(MSGP-0071)	**Source Id**	MSGP 2023 VA JulSep
Created By	Banar, Alethea (108243)		
Created by, used for transfer to EDRMS	Banar, Alethea		

Responses

1. Document the monitoring period (e.g., Jan-Feb-Mar).

July-Sept

2. Document the Date/Time Discharge began (mm/dd/yy hh:mm).

07/21/2023 12:50

3. Document the Date/Time sample collected (mm/dd/yy hh:mm).

07/21/2023 12:50

4. Document the Date/Time sample visually assessed (mm/dd/yy hh:mm).

07/24/2023 09:55

5. Document the nature of discharge (e.g., rain, snowmelt) and the TOTAL amount (in).

Rain 0.09 inch

6. Sample collected in first 30 minutes of discharge? If No or unknown, provide a reason.

- Yes

7. Color in sample? If Yes, describe.

- Yes

Slight brown color

8. Odor in sample? If Yes, describe (e.g. musty, sewage, sulfur, sour, solvent, petroleum/gas).

- No

9. Diminished clarity of sample? If Yes, describe (e.g., slightly cloudy, cloudy, opaque).

- No

10. Floating solids in sample? If Yes, describe if raw or waste material(s).

- No

11. Settled solids in sample? If Yes, describe (e.g., fine, course).

- Yes

Fine sediment

12. Suspended solids in sample? If Yes, describe (e.g., fine, course).

- No

13. Foam in sample after gently shaking? If Yes, describe foam color and location (e.g.,'on the surface' or 'in the sample').

- No

14. Oil sheen on sample? If Yes, describe color and thickness (e.g. flecks, globs).

- No

15. Other obvious indicators of stormwater pollution in sample? If Yes, describe.

- No

16. Additional information:

17. Date inspection completed.

07/24/2023

18. Time inspection completed.

09:55

19. Select inspector name.

Banar, Alethea

20. Signature/Name
I confirm the information as recorded is true, accurate and complete.

21.

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, e.g., FOD, Ops Mgr, EPC Group or Team Leader)

22. Print name and title: Terrill W. Lemke, EPC-CP Storm Water Permitting/Compliance Team Leader

MSGP Record Print - Non-Employee Related Questionnaire (Clone)

Questionnaire

Details

Date Of Response *	08/08/2023	**Questionnaire** *	MSGP Visual Assessment (MSGP-VISUAL)
Source	Environment Inspection/Survey Program	**QRHId**	481
Location	MSGP02201(MSGP-0070)	**Source Id**	MSGP 2023 VA JulSep
Created By	Shendo, Marwin (175810)		
Created by, used for transfer to EDRMS	Shendo, Marwin		

Responses

1. Document the monitoring period (e.g., Jan-Feb-Mar).

jul-sept

2. Document the Date/Time Discharge began (mm/dd/yy hh:mm).

8/8/23 @ 14:48

3. Document the Date/Time sample collected (mm/dd/yy hh:mm).

8/8/23 @ 14:48

4. Document the Date/Time sample visually assessed (mm/dd/yy hh:mm).

8/8/23 @ 14:59

5. Document the nature of discharge (e.g., rain, snowmelt) and the TOTAL amount (in).

rain .37

6. Sample collected in first 30 minutes of discharge? If No or unknown, provide a reason.

- Yes

7. Color in sample? If Yes, describe.

- Yes

brown

8. Odor in sample? If Yes, describe (e.g. musty, sewage, sulfur, sour, solvent, petroleum/gas).

- Yes

musty

9. Diminished clarity of sample? If Yes, describe (e.g., slightly cloudy, cloudy, opaque).

- Yes

cloudy

10. Floating solids in sample? If Yes, describe if raw or waste material(s).

- No

11. Settled solids in sample? If Yes, describe (e.g., fine, course).

- No

12. Suspended solids in sample? If Yes, describe (e.g., fine, course).

- No

13. Foam in sample after gently shaking? If Yes, describe foam color and location (e.g.,'on the surface' or 'in the sample').

- No

14. Oil sheen on sample? If Yes, describe color and thickness (e.g. flecks, globs).

- No

15. Other obvious indicators of stormwater pollution in sample? If Yes, describe.

- No

16. Additional information:

n/a

17. Date inspection completed.

08/08/2023

18. Time inspection completed.

14:59

19. Select inspector name.

Shendo, Marwin

20. Signature/Name
I confirm the information as recorded is true, accurate and complete.

21.

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, e.g., FOD, Ops Mgr, EPC Group or Team Leader)

22. Print name and title: Terrill W. Lemke, EPC-CP Storm Water Permitting/Compliance Team Leader

MSGP Record Print - Non-Employee Related Questionnaire (Clone)

Questionnaire

Details

Date Of Response *	07/28/2023	**Questionnaire** *	MSGP Visual Assessment (MSGP-VISUAL)
Source	Environment Inspection/Survey Program	**QRHId**	429
Location	MSGP02301(MSGP-0072)	**Source Id**	MSGP 2023 VA JulSep
Created By	Banar, Alethea (108243)		
Created by, used for transfer to EDRMS	Banar, Alethea		

Responses

1. Document the monitoring period (e.g., Jan-Feb-Mar).

Jul-Sept

2. Document the Date/Time Discharge began (mm/dd/yy hh:mm).

7/27/23 13:15

3. Document the Date/Time sample collected (mm/dd/yy hh:mm).

7/27/23 13:15

4. Document the Date/Time sample visually assessed (mm/dd/yy hh:mm).

07/28/23 08:52

5. Document the nature of discharge (e.g., rain, snowmelt) and the TOTAL amount (in).

Rain 0.15 inch

6. Sample collected in first 30 minutes of discharge? If No or unknown, provide a reason.

- Yes

7. Color in sample? If Yes, describe.

- Yes

Slight gray color

8. Odor in sample? If Yes, describe (e.g. musty, sewage, sulfur, sour, solvent, petroleum/gas).

- No

9. Diminished clarity of sample? If Yes, describe (e.g., slightly cloudy, cloudy, opaque).

- No

10. Floating solids in sample? If Yes, describe if raw or waste material(s).

- No

11. Settled solids in sample? If Yes, describe (e.g., fine, course).

- Yes

Fine sediment

12. Suspended solids in sample? If Yes, describe (e.g., fine, course).

- No

13. Foam in sample after gently shaking? If Yes, describe foam color and location (e.g.,'on the surface' or 'in the sample').

- No

14. Oil sheen on sample? If Yes, describe color and thickness (e.g. flecks, globs).

- No

15. Other obvious indicators of stormwater pollution in sample? If Yes, describe.

- No

16. Additional information:

n/a

17. Date inspection completed.

07/28/2023

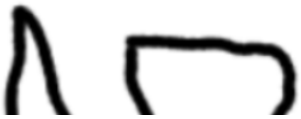
18. Time inspection completed.

08:52

19. Select inspector name.

Banar, Alethea

20. Signature/Name
I confirm the information as recorded is true, accurate and complete.



21.

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, e.g., FOD, Ops Mgr, EPC Group or Team Leader)

22. Print name and title: Terrill W. Lemke, EPC-CP Storm Water Permitting/Compliance Team Leader

MSGP Record Print - Non-Employee Related Questionnaire (Clone)

Questionnaire

Details

Date Of Response *	07/24/2023	**Questionnaire** *	MSGP Visual Assessment (MSGP-VISUAL)
Source	Environment Inspection/Survey Program	**QRHId**	405
Location	MSGP02401(MSGP-0073)	**Source Id**	MSGP 2023 VA JulSep
Created By	Banar, Alethea (108243)		
Created by, used for transfer to EDRMS	Banar, Alethea		

Responses

1. Document the monitoring period (e.g., Jan-Feb-Mar).

July-Sept

2. Document the Date/Time Discharge began (mm/dd/yy hh:mm).

07/21/2023 12:50

3. Document the Date/Time sample collected (mm/dd/yy hh:mm).

07/21/2023 12:50

4. Document the Date/Time sample visually assessed (mm/dd/yy hh:mm).

07/24/2023 09:20

5. Document the nature of discharge (e.g., rain, snowmelt) and the TOTAL amount (in).

Rain 0.09 inch

6. Sample collected in first 30 minutes of discharge? If No or unknown, provide a reason.

- Yes

7. Color in sample? If Yes, describe.

- No

8. Odor in sample? If Yes, describe (e.g. musty, sewage, sulfur, sour, solvent, petroleum/gas).

- No

9. Diminished clarity of sample? If Yes, describe (e.g., slightly cloudy, cloudy, opaque).

- No

10. Floating solids in sample? If Yes, describe if raw or waste material(s).

- No

11. Settled solids in sample? If Yes, describe (e.g., fine, course).

- Yes

A few pieces of small asphalt gravel.

12. Suspended solids in sample? If Yes, describe (e.g., fine, course).

- No

13. Foam in sample after gently shaking? If Yes, describe foam color and location (e.g.,'on the surface' or 'in the sample').

- No

14. Oil sheen on sample? If Yes, describe color and thickness (e.g. flecks, globs).

- No

15. Other obvious indicators of stormwater pollution in sample? If Yes, describe.

- No

16. Additional information:

17. Date inspection completed.

07/24/2023

18. Time inspection completed.

09:20

19. Select inspector name.

Banar, Alethea

20. Signature/Name
I confirm the information as recorded is true, accurate and complete.

21.

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, e.g., FOD, Ops Mgr, EPC Group or Team Leader)

22. Print name and title: Terrill W. Lemke, EPC-CP Storm Water Permitting/Compliance Team Leader

MSGP Record Print - Non-Employee Related Questionnaire (Clone)

Questionnaire

Details

Date Of Response *	07/24/2023	**Questionnaire** *	MSGP Visual Assessment (MSGP-VISUAL)
Source	Environment Inspection/Survey Program	**QRHId**	404
Location	MSGP02501(MSGP-0074)	**Source Id**	MSGP 2023 VA JulSep
Created By	Banar, Alethea (108243)		
Created by, used for transfer to EDRMS	Banar, Alethea		

Responses

1. Document the monitoring period (e.g., Jan-Feb-Mar).

July-September

2. Document the Date/Time Discharge began (mm/dd/yy hh:mm).

07/21/2023 12:50

3. Document the Date/Time sample collected (mm/dd/yy hh:mm).

07/21/2023 12:50

4. Document the Date/Time sample visually assessed (mm/dd/yy hh:mm).

07/24/2023 09:15

5. Document the nature of discharge (e.g., rain, snowmelt) and the TOTAL amount (in).

Rain 0.09 inch

6. Sample collected in first 30 minutes of discharge? If No or unknown, provide a reason.

- Yes

7. Color in sample? If Yes, describe.

- No

8. Odor in sample? If Yes, describe (e.g. musty, sewage, sulfur, sour, solvent, petroleum/gas).

- No

9. Diminished clarity of sample? If Yes, describe (e.g., slightly cloudy, cloudy, opaque).

- No

10. Floating solids in sample? If Yes, describe if raw or waste material(s).

- No

11. Settled solids in sample? If Yes, describe (e.g., fine, course).

- Yes

Fine sediment and ants

12. Suspended solids in sample? If Yes, describe (e.g., fine, course).

- No

13. Foam in sample after gently shaking? If Yes, describe foam color and location (e.g.,'on the surface' or 'in the sample').

- No

14. Oil sheen on sample? If Yes, describe color and thickness (e.g. flecks, globs).

- No

15. Other obvious indicators of stormwater pollution in sample? If Yes, describe.

- No

16. Additional information:

17. Date inspection completed.

07/24/2023

18. Time inspection completed.

09:15

19. Select inspector name.

Banar, Alethea

20. Signature/Name
I confirm the information as recorded is true, accurate and complete.

21.

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, e.g., FOD, Ops Mgr, EPC Group or Team Leader)

22. Print name and title: Terrill W. Lemke, EPC-CP Storm Water Permitting/Compliance Team Leader

NMR050013 MSGP 2021
TA-60-0001 Heavy Equipment Yard

Quarterly Visual Assessment Forms,
Second Quarter, October through December 2023

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 Stormwater Permitting/Compliance Team Leader
Los Alamos National Laboratory

TERRILL LEMKE (Affiliate)

Digitally signed by TERRILL LEMKE (Affiliate)
Date: 2024.01.08 12:53:02 -07'00'

Manager Signature

Facility Name	Sampling Station	Inspection #
TA-60-0001 Heavy Equipment Yard	MSGP02101	MSGP-QRHId-710
TA-60-0001 Heavy Equipment Yard	MSGP02301	MSGP-QRHId-708
TA-60-0001 Heavy Equipment Yard	MSGP02401	MSGP-QRHId-707
TA-60-0001 Heavy Equipment Yard	MSGP02501	MSGP-QRHId-706

MSGP Record Print - Non-Employee Related Questionnaire (Clone) ⓘ

Questionnaire

Details

Date Of Response *	10/03/2023	**Questionnaire** *	MSGP Visual Assessment (MSGP-VISUAL)
Source	Environment Inspection/Survey Program	**QRHId**	710
Location	MSGP02101(MSGP-0071)	**Source Id**	MSGP 2023 VA Oct-Dec
Created By	Banar, Alethea (108243)		
Created by, used for transfer to EDRMS	Banar, Alethea		

Responses

1. Document the monitoring period (e.g., Jan-Feb-Mar).

Oct-Dec

2. Document the Date/Time Discharge began (mm/dd/yy hh:mm).

10/02/23 15:20

3. Document the Date/Time sample collected (mm/dd/yy hh:mm).

10/02/23 15:20

4. Document the Date/Time sample visually assessed (mm/dd/yy hh:mm).

10/03/23 10:42

5. Document the nature of discharge (e.g., rain, snowmelt) and the TOTAL amount (in).

Rain 0.21 inch

6. Sample collected in first 30 minutes of discharge? If No or unknown, provide a reason.

Yes

7. Color in sample? If Yes, describe.

No

8. Odor in sample? If Yes, describe (e.g. musty, sewage, sulfur, sour, solvent, petroleum/gas).

No

9. Diminished clarity of sample? If Yes, describe (e.g., slightly cloudy, cloudy, opaque).

No

10. Floating solids in sample? If Yes, describe if raw or waste material(s).

No

11. Settled solids in sample? If Yes, describe (e.g., fine, course).

Yes

Fine sediment

12. Suspended solids in sample? If Yes, describe (e.g., fine, course).

No

13. Foam in sample after gently shaking? If Yes, describe foam color and location (e.g.,'on the surface' or 'in the sample').

No

14. Oil sheen on sample? If Yes, describe color and thickness (e.g. flecks, globs).

No

15. Other obvious indicators of stormwater pollution in sample? If Yes, describe.

No

16. Additional information:

N/A

17. Date inspection completed.

10/03/2023

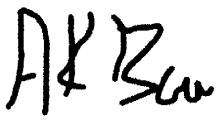
18. Time inspection completed.

10:42

19. Select inspector name.

Banar, Alethea

20. Signature/Name
I confirm the information as recorded is true, accurate and complete.



21.

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, e.g., FOD, Ops Mgr, EPC Group or Team Leader)

22. Print name and title: Terrill W. Lemke, EPC-CP Storm Water Permitting/Compliance Team Leader

23. Signature and Date: (See signature on file)

MSGP Record Print - Non-Employee Related Questionnaire (Clone) ⓘ

Questionnaire

Details

Date Of Response *	10/03/2023	**Questionnaire** *	MSGP Visual Assessment (MSGP-VISUAL)
Source	Environment Inspection/Survey Program	**QRHId**	708
Location	MSGP02301(MSGP-0072)	**Source Id**	MSGP 2023 VA OctDec
Created By	Banar, Alethea (108243)		
Created by, used for transfer to EDRMS	Banar, Alethea		

Responses

1. Document the monitoring period (e.g., Jan-Feb-Mar).

Oct-Dec

2. Document the Date/Time Discharge began (mm/dd/yy hh:mm).

10/02/23 15:20

3. Document the Date/Time sample collected (mm/dd/yy hh:mm).

10/02/23 15:20

4. Document the Date/Time sample visually assessed (mm/dd/yy hh:mm).

10/03/23 10:32

5. Document the nature of discharge (e.g., rain, snowmelt) and the TOTAL amount (in).

Rain 0.21 inch

6. Sample collected in first 30 minutes of discharge? If No or unknown, provide a reason.

Yes

7. Color in sample? If Yes, describe.

No

8. Odor in sample? If Yes, describe (e.g. musty, sewage, sulfur, sour, solvent, petroleum/gas).

No

9. Diminished clarity of sample? If Yes, describe (e.g., slightly cloudy, cloudy, opaque).

No

10. Floating solids in sample? If Yes, describe if raw or waste material(s).

Yes

Vegetation

11. Settled solids in sample? If Yes, describe (e.g., fine, course).

Yes

Fine sediment

12. Suspended solids in sample? If Yes, describe (e.g., fine, course).

No

13. Foam in sample after gently shaking? If Yes, describe foam color and location (e.g.,'on the surface' or 'in the sample').

No

14. Oil sheen on sample? If Yes, describe color and thickness (e.g. flecks, globs).

No

15. Other obvious indicators of stormwater pollution in sample? If Yes, describe.

No

16. Additional information:

N/A

17. Date inspection completed.

10/03/2023

18. Time inspection completed.

10:32

19. Select inspector name.

Banar, Alethea

20. Signature/Name
I confirm the information as recorded is true, accurate and complete.

21.

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, e.g., FOD, Ops Mgr, EPC Group or Team Leader)

22. Print name and title: Terrill W. Lemke, EPC-CP Storm Water Permitting/Compliance Team Leader

23. Signature and Date: (See signature on file)

MSGP Record Print - Non-Employee Related Questionnaire (Clone) ⓘ

Questionnaire

Details

Date Of Response *	10/03/2023	**Questionnaire** *	MSGP Visual Assessment (MSGP-VISUAL)
Source	Environment Inspection/Survey Program	**QRHId**	707
Location	MSGP02401(MSGP-0073)	**Source Id**	MSGP 2023 VA OctDec
Created By	Banar, Alethea (108243)		
Created by, used for transfer to EDRMS	Banar, Alethea		

Responses

1. Document the monitoring period (e.g., Jan-Feb-Mar).

Oct-Dec

2. Document the Date/Time Discharge began (mm/dd/yy hh:mm).

10/02/23 15:20

3. Document the Date/Time sample collected (mm/dd/yy hh:mm).

10/02/23 15:20

4. Document the Date/Time sample visually assessed (mm/dd/yy hh:mm).

10/03/23 10:25

5. Document the nature of discharge (e.g., rain, snowmelt) and the TOTAL amount (in).

Rain 0.21 inch

6. Sample collected in first 30 minutes of discharge? If No or unknown, provide a reason.

Yes

7. Color in sample? If Yes, describe.

Yes

Tan

8. Odor in sample? If Yes, describe (e.g. musty, sewage, sulfur, sour, solvent, petroleum/gas).

No

9. Diminished clarity of sample? If Yes, describe (e.g., slightly cloudy, cloudy, opaque).

Yes

Slightly cloudy

10. Floating solids in sample? If Yes, describe if raw or waste material(s).

No

11. Settled solids in sample? If Yes, describe (e.g., fine, course).

Yes

Fine sediment and small gravel

12. Suspended solids in sample? If Yes, describe (e.g., fine, course).

No

13. Foam in sample after gently shaking? If Yes, describe foam color and location (e.g.,'on the surface' or 'in the sample').

No

14. Oil sheen on sample? If Yes, describe color and thickness (e.g. flecks, globs).

No

15. Other obvious indicators of stormwater pollution in sample? If Yes, describe.

No

16. Additional information:

N/A

17. Date inspection completed.

10/03/2023

18. Time inspection completed.

10:25

19. Select inspector name.

Banar, Alethea

20. Signature/Name
I confirm the information as recorded is true, accurate and complete.

21.

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, e.g., FOD, Ops Mgr, EPC Group or Team Leader)

22. Print name and title: Terrill W. Lemke, EPC-CP Storm Water Permitting/Compliance Team Leader

23. Signature and Date: (See signature on file)

MSGP Record Print - Non-Employee Related Questionnaire (Clone) ⓘ

Questionnaire

Details

Date Of Response *	10/03/2023	**Questionnaire** *	MSGP Visual Assessment (MSGP-VISUAL)
Source	Environment Inspection/Survey Program	**QRHId**	706
Location	MSGP02501(MSGP-0074)	**Source Id**	MSGP 2023 VA OctDec
Created By	Banar, Alethea (108243)		
Created by, used for transfer to EDRMS	Banar, Alethea		

Responses

1. Document the monitoring period (e.g., Jan-Feb-Mar).

Oct-Dec

2. Document the Date/Time Discharge began (mm/dd/yy hh:mm).

10/02/23 15:20

3. Document the Date/Time sample collected (mm/dd/yy hh:mm).

10/02/23 15:20

4. Document the Date/Time sample visually assessed (mm/dd/yy hh:mm).

10/03/23 10:18

5. Document the nature of discharge (e.g., rain, snowmelt) and the TOTAL amount (in).

Rain 0.21 inch

6. Sample collected in first 30 minutes of discharge? If No or unknown, provide a reason.

Yes

7. Color in sample? If Yes, describe.

Yes

Tan

8. Odor in sample? If Yes, describe (e.g. musty, sewage, sulfur, sour, solvent, petroleum/gas).

No

9. Diminished clarity of sample? If Yes, describe (e.g., slightly cloudy, cloudy, opaque).

Yes

Slightly cloudy

10. Floating solids in sample? If Yes, describe if raw or waste material(s).

No

11. Settled solids in sample? If Yes, describe (e.g., fine, course).

Yes

Fine sediment

12. Suspended solids in sample? If Yes, describe (e.g., fine, course).

No

13. Foam in sample after gently shaking? If Yes, describe foam color and location (e.g.,'on the surface' or 'in the sample').

No

14. Oil sheen on sample? If Yes, describe color and thickness (e.g. flecks, globs).

No

15. Other obvious indicators of stormwater pollution in sample? If Yes, describe.

No

16. Additional information:

N/A

17. Date inspection completed.

10/03/2023

18. Time inspection completed.

10:18

19. Select inspector name.

Banar, Alethea

20. Signature/Name
I confirm the information as recorded is true, accurate and complete.

21.

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, e.g., FOD, Ops Mgr, EPC Group or Team Leader)

22. Print name and title: Terrill W. Lemke, EPC-CP Storm Water Permitting/Compliance Team Leader

23. Signature and Date: (See signature on file)

NMR050013 MSGP 2021
TA-60-0001 Heavy Equipment Yard

Quarterly Visual Assessment Forms,
Third Quarter, January through March 2024

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 Stormwater Permitting/Compliance Team Leader
Los Alamos National Laboratory

TERRILL LEMKE (Affiliate)

Digitally signed by TERRILL LEMKE (Affiliate)
Date: 2024.04.22 15:20:47 -06'00'

Manager Signature

Facility Name	Sampling Station	Inspection #
TA-60-0001 Heavy Equipment Yard	MSGP02101	MSGP-QRHId-1033
TA-60-0001 Heavy Equipment Yard	MSGP02201	MSGP-QRHId-1216
TA-60-0001 Heavy Equipment Yard	MSGP02301	MSGP-QRHId-1071
TA-60-0001 Heavy Equipment Yard	MSGP02401	MSGP-QRHId-1043
TA-60-0001 Heavy Equipment Yard	MSGP02501	MSGP-QRHId-1046

MSGP Record Print - Non-Employee Related Questionnaire (Clone)

Questionnaire

Details

Date Of Response *	01/08/2024	**Questionnaire** *	MSGP Visual Assessment (MSGP-VISUAL)
Source	Environment Inspection/Survey Program	**QRHId**	1033
Location	MSGP02101(MSGP-0071)	**Source Id**	MSGP 2024 VA JanMar
Created By	Banar, Alethea (108243)		
Created by, used for transfer to EDRMS	Banar, Alethea		

Responses

1. Document the monitoring period (e.g., Jan-Feb-Mar).

Jan-Feb-March

2. Document the Date/Time Discharge began (mm/dd/yy hh:mm).

N/A

3. Document the Date/Time sample collected (mm/dd/yy hh:mm).

N/A

4. Document the Date/Time sample visually assessed (mm/dd/yy hh:mm).

1/8/24 10:40

5. Document the nature of discharge (e.g., rain, snowmelt) and the TOTAL amount (in).

Snowmelt - Ice and a small amount of water in sampler jar.

6. Sample collected in first 30 minutes of discharge? If No or unknown, provide a reason.

- Yes

7. Color in sample? If Yes, describe.

- No

8. Odor in sample? If Yes, describe (e.g. musty, sewage, sulfur, sour, solvent, petroleum/gas).

- No

9. Diminished clarity of sample? If Yes, describe (e.g., slightly cloudy, cloudy, opaque).

- No

10. Floating solids in sample? If Yes, describe if raw or waste material(s).

- Yes

Vegetation

11. Settled solids in sample? If Yes, describe (e.g., fine, course).

- Yes

Fine dark brown sediment

12. Suspended solids in sample? If Yes, describe (e.g., fine, course).

- No

13. Foam in sample after gently shaking? If Yes, describe foam color and location (e.g.,'on the surface' or 'in the sample').

- No

14. Oil sheen on sample? If Yes, describe color and thickness (e.g. flecks, globs).

- No

15. Other obvious indicators of stormwater pollution in sample? If Yes, describe.

- No

16. Additional information:

17. Date inspection completed.

01/08/2024

18. Time inspection completed.

10:40

19. Select inspector name.

Banar, Alethea

20. Signature/Name
I confirm the information as recorded is true, accurate and complete.

21.

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, e.g., FOD, Ops Mgr, EPC Group or Team Leader)

22. Print name and title: Terrill W. Lemke, EPC-CP Storm Water Permitting/Compliance Team Leader

23. Signature and Date: (See signature on file)

Go To Top

Documents

View Documents for this Questionnaire

Description	Document Type	Document Date

MSGP Record Print - Non-Employee Related Questionnaire (Clone)

Questionnaire

Details

Date Of Response *	02/02/2024	**Questionnaire** *	MSGP Visual Assessment (MSGP-VISUAL)
Source	Environment Inspection/Survey Program	**QRHId**	1216
Location	MSGP02201(MSGP-0070)	**Source Id**	MSGP 2024 VA JanMar
Created By	Shendo, Marwin (175810)		
Created by, used for transfer to EDRMS	Shendo, Marwin		

Responses

1. Document the monitoring period (e.g., Jan-Feb-Mar).

jan-mar

2. Document the Date/Time Discharge began (mm/dd/yy hh:mm).

2/2/24 @ 7:15

3. Document the Date/Time sample collected (mm/dd/yy hh:mm).

2/2/24 @ 7:15

4. Document the Date/Time sample visually assessed (mm/dd/yy hh:mm).

2/2/24 @ 12:12

5. Document the nature of discharge (e.g., rain, snowmelt) and the TOTAL amount (in).

rain, 0.09in

6. Sample collected in first 30 minutes of discharge? If No or unknown, provide a reason.

- Yes

7. Color in sample? If Yes, describe.

- Yes

brown

8. Odor in sample? If Yes, describe (e.g. musty, sewage, sulfur, sour, solvent, petroleum/gas).

- No

9. Diminished clarity of sample? If Yes, describe (e.g., slightly cloudy, cloudy, opaque).

- Yes

cloudy

10. Floating solids in sample? If Yes, describe if raw or waste material(s).

- No

11. Settled solids in sample? If Yes, describe (e.g., fine, course).

- Yes

fine

12. Suspended solids in sample? If Yes, describe (e.g., fine, course).

- No

13. Foam in sample after gently shaking? If Yes, describe foam color and location (e.g.,'on the surface' or 'in the sample').

- No

14. Oil sheen on sample? If Yes, describe color and thickness (e.g. flecks, globs).

- No

15. Other obvious indicators of stormwater pollution in sample? If Yes, describe.

- No

16. Additional information:

17. Date inspection completed.

02/02/2024

18. Time inspection completed.

12:12

19. Select inspector name.

Shendo, Marwin

20. Signature/Name
I confirm the information as recorded is true, accurate and complete.

21.

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, e.g., FOD, Ops Mgr, EPC Group or Team Leader)

22. Print name and title: Terrill W. Lemke, EPC-CP Storm Water Permitting/Compliance Team Leader

23. Signature and Date: (See signature on file)

Go To Top

Documents

View Documents for this Questionnaire

Description	Document Type	Document Date

MSGP Record Print - Non-Employee Related Questionnaire (Clone)

Questionnaire

Details

Date Of Response *	01/16/2024	**Questionnaire** *	MSGP Visual Assessment (MSGP-VISUAL)
Source	Environment Inspection/Survey Program	**QRHId**	1071
Location	MSGP02301(MSGP-0072)	**Source Id**	MSGP 2024 VA JanMar
Created By	Banar, Alethea (108243)		
Created by, used for transfer to EDRMS	Banar, Alethea		

Responses

1. Document the monitoring period (e.g., Jan-Feb-Mar).

Jan-Feb-Mar

2. Document the Date/Time Discharge began (mm/dd/yy hh:mm).

N/A

3. Document the Date/Time sample collected (mm/dd/yy hh:mm).

N/A

4. Document the Date/Time sample visually assessed (mm/dd/yy hh:mm).

1/16/2024 14:30

5. Document the nature of discharge (e.g., rain, snowmelt) and the TOTAL amount (in).

Snowmelt

6. Sample collected in first 30 minutes of discharge? If No or unknown, provide a reason.

- Yes

7. Color in sample? If Yes, describe.

- No

8. Odor in sample? If Yes, describe (e.g. musty, sewage, sulfur, sour, solvent, petroleum/gas).

- No

9. Diminished clarity of sample? If Yes, describe (e.g., slightly cloudy, cloudy, opaque).

- Yes

Slightly cloudy

10. Floating solids in sample? If Yes, describe if raw or waste material(s).

- No

11. Settled solids in sample? If Yes, describe (e.g., fine, course).

- Yes

Fine black sediment

12. Suspended solids in sample? If Yes, describe (e.g., fine, course).

- Yes

Fine black sediment

13. Foam in sample after gently shaking? If Yes, describe foam color and location (e.g.,'on the surface' or 'in the sample').

- No

14. Oil sheen on sample? If Yes, describe color and thickness (e.g. flecks, globs).

- No

15. Other obvious indicators of stormwater pollution in sample? If Yes, describe.

- No

16. Additional information:

N/A

17. Date inspection completed.

01/16/2024

18. Time inspection completed.

14:30

19. Select inspector name.

Banar, Alethea

20. Signature/Name
I confirm the information as recorded is true, accurate and complete.

21.

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, e.g., FOD, Ops Mgr, EPC Group or Team Leader)

22. Print name and title: Terrill W. Lemke, EPC-CP Storm Water Permitting/Compliance Team Leader

23. Signature and Date: (See signature on file)

Go To Top

Documents

View Documents for this Questionnaire

Description	Document Type	Document Date

MSGP Record Print - Non-Employee Related Questionnaire (Clone)

Questionnaire

Details

Date Of Response *	01/08/2024	**Questionnaire** *	MSGP Visual Assessment (MSGP-VISUAL)
Source	Environment Inspection/Survey Program	**QRHId**	1043
Location	MSGP02401(MSGP-0073)	**Source Id**	MSGP 2024 VA JanMar
Created By	Banar, Alethea (108243)		
Created by, used for transfer to EDRMS	Banar, Alethea		

Responses

1. Document the monitoring period (e.g., Jan-Feb-Mar).

Jan-Feb-Mar

2. Document the Date/Time Discharge began (mm/dd/yy hh:mm).

N/A

3. Document the Date/Time sample collected (mm/dd/yy hh:mm).

N/A

4. Document the Date/Time sample visually assessed (mm/dd/yy hh:mm).

1/8/24 10:05

5. Document the nature of discharge (e.g., rain, snowmelt) and the TOTAL amount (in).

Snowmelt - ice and a small amount of water in sampler jar

6. Sample collected in first 30 minutes of discharge? If No or unknown, provide a reason.

- Yes

7. Color in sample? If Yes, describe.

- No

8. Odor in sample? If Yes, describe (e.g. musty, sewage, sulfur, sour, solvent, petroleum/gas).

- No

9. Diminished clarity of sample? If Yes, describe (e.g., slightly cloudy, cloudy, opaque).

- Yes

Slightly cloudy

10. Floating solids in sample? If Yes, describe if raw or waste material(s).

- No

11. Settled solids in sample? If Yes, describe (e.g., fine, course).

- Yes

Coarse and fine sediment

12. Suspended solids in sample? If Yes, describe (e.g., fine, course).

- No

13. Foam in sample after gently shaking? If Yes, describe foam color and location (e.g.,'on the surface' or 'in the sample').

- No

14. Oil sheen on sample? If Yes, describe color and thickness (e.g. flecks, globs).

- No

15. Other obvious indicators of stormwater pollution in sample? If Yes, describe.

- No

16. Additional information:

17. Date inspection completed.

01/08/2024

18. Time inspection completed.

10:05

19. Select inspector name.

Banar, Alethea

20. Signature/Name
I confirm the information as recorded is true, accurate and complete.

21.

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, e.g., FOD, Ops Mgr, EPC Group or Team Leader)

22. Print name and title: Terrill W. Lemke, EPC-CP Storm Water Permitting/Compliance Team Leader

23. Signature and Date: (See signature on file)

Go To Top

Documents

View Documents for this Questionnaire

Description	Document Type	Document Date

MSGP Record Print - Non-Employee Related Questionnaire (Clone)

Questionnaire

Details

Date Of Response *	01/08/2024	**Questionnaire** *	MSGP Visual Assessment (MSGP-VISUAL)
Source	Environment Inspection/Survey Program	**QRHId**	1046
Location	MSGP02501(MSGP-0074)	**Source Id**	MSGP 2024 VA JanMar
Created By	Banar, Alethea (108243)		
Created by, used for transfer to EDRMS	Banar, Alethea		

Responses

1. Document the monitoring period (e.g., Jan-Feb-Mar).

Jan-Feb-Mar

2. Document the Date/Time Discharge began (mm/dd/yy hh:mm).

N/A

3. Document the Date/Time sample collected (mm/dd/yy hh:mm).

N/A

4. Document the Date/Time sample visually assessed (mm/dd/yy hh:mm).

1/8/24 10:10

5. Document the nature of discharge (e.g., rain, snowmelt) and the TOTAL amount (in).

Snowmelt - ice and a small amount of water in sampler jar

6. Sample collected in first 30 minutes of discharge? If No or unknown, provide a reason.

- Yes

7. Color in sample? If Yes, describe.

- No

8. Odor in sample? If Yes, describe (e.g. musty, sewage, sulfur, sour, solvent, petroleum/gas).

- No

9. Diminished clarity of sample? If Yes, describe (e.g., slightly cloudy, cloudy, opaque).

- No

10. Floating solids in sample? If Yes, describe if raw or waste material(s).

- No

11. Settled solids in sample? If Yes, describe (e.g., fine, course).

- Yes

Fine black sediment

12. Suspended solids in sample? If Yes, describe (e.g., fine, course).

- No

13. Foam in sample after gently shaking? If Yes, describe foam color and location (e.g.,'on the surface' or 'in the sample').

- No

14. Oil sheen on sample? If Yes, describe color and thickness (e.g. flecks, globs).

- No

15. Other obvious indicators of stormwater pollution in sample? If Yes, describe.

- No

16. Additional information:

17. Date inspection completed.

01/08/2024

18. Time inspection completed.

10:10

19. Select inspector name.

Banar, Alethea

20. Signature/Name
I confirm the information as recorded is true, accurate and complete.

21.

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, e.g., FOD, Ops Mgr, EPC Group or Team Leader)

22. Print name and title: Terrill W. Lemke, EPC-CP Storm Water Permitting/Compliance Team Leader

23. Signature and Date: (See signature on file)

Go To Top

Documents

View Documents for this Questionnaire

Description	Document Type	Document Date

NMR050013 MSGP 2021
TA-60-0001 Heavy Equipment Yard

Quarterly Visual Assessment Forms,
Fourth Quarter, April through June 2024

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 Stormwater Permitting/Compliance Team Leader
Los Alamos National Laboratory

TERRILL LEMKE (Affiliate)

Digitally signed by TERRILL LEMKE (Affiliate)
Date: 2024.08.23 18:06:22 -06'00'

Manager Signature

Facility Name	Sampling Station	Inspection #
TA-60-0001 Heavy Equipment Yard	MSGP02101	MSGP-QRHId-1499
TA-60-0001 Heavy Equipment Yard	MSGP02201	MSGP-QRHId-2798
TA-60-0001 Heavy Equipment Yard	MSGP02301	MSGP-QRHId-1500
TA-60-0001 Heavy Equipment Yard	MSGP02401	MSGP-QRHId-1502
TA-60-0001 Heavy Equipment Yard	MSGP02501	MSGP-QRHId-1501

MSGP Record Print - Non-Employee Related Questionnaire (Clone)

Questionnaire

Details

Date Of Response *	04/01/2024	**Questionnaire** *	MSGP Visual Assessment (MSGP-VISUAL)
Source	Environment Inspection/Survey Program	**QRHId**	1499
Location	MSGP02101(MSGP-0071)	**Source Id**	MSGP 2024 VA AprJun2
Created By	Banar, Alethea (108243)		

Responses

1. Document the monitoring period (e.g., Jan-Feb-Mar).

April-May-June

2. Document the Date/Time Discharge began (mm/dd/yy hh:mm).

4/1/24, unknown

3. Document the Date/Time sample collected (mm/dd/yy hh:mm).

4/1/24, unknown

4. Document the Date/Time sample visually assessed (mm/dd/yy hh:mm).

4/1/24 11:45

5. Document the nature of discharge (e.g., rain, snowmelt) and the TOTAL amount (in).

Snowmelt

6. Sample collected in first 30 minutes of discharge? If No or unknown, provide a reason.

- Yes

7. Color in sample? If Yes, describe.

- Yes

Tan

8. Odor in sample? If Yes, describe (e.g. musty, sewage, sulfur, sour, solvent, petroleum/gas).

- No

9. Diminished clarity of sample? If Yes, describe (e.g., slightly cloudy, cloudy, opaque).

- Yes

Slightly cloudy

10. Floating solids in sample? If Yes, describe if raw or waste material(s).

- No

11. Settled solids in sample? If Yes, describe (e.g., fine, course).

- Yes

Fine sediment

12. Suspended solids in sample? If Yes, describe (e.g., fine, course).

- No

13. Foam in sample after gently shaking? If Yes, describe foam color and location (e.g.,'on the surface' or 'in the sample').

- No

14. Oil sheen on sample? If Yes, describe color and thickness (e.g. flecks, globs).

- No

15. Other obvious indicators of stormwater pollution in sample? If Yes, describe.

- No

16. Additional information:

n/a

17. Date inspection completed.

04/01/2024

18. Time inspection completed.

11:45

19. Select inspector name.

Banar, Alethea

20. Signature/Name
I confirm the information as recorded is true, accurate and complete.

21.

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, e.g., FOD, Ops Mgr, EPC Group or Team Leader)

22. Print name and title: Terrill W. Lemke, EPC-CP Storm Water Permitting/Compliance Team Leader

23. Signature and Date: (See signature on file)

MSGP Record Print - Non-Employee Related Questionnaire (Clone)

Questionnaire

Details

Date Of Response *	05/14/2024	**Questionnaire** *	MSGP Visual Assessment (MSGP-VISUAL)
Source	Environment Inspection/Survey Program	**QRHId**	2798
Location	MSGP02201(MSGP-0070)	**Source Id**	MSGP 2024 VA AprJun2
Created By	Shendo, Marwin (175810)		

Responses

1. Document the monitoring period (e.g., Jan-Feb-Mar).

apr-jun

2. Document the Date/Time Discharge began (mm/dd/yy hh:mm).

5/14/24 12:45

3. Document the Date/Time sample collected (mm/dd/yy hh:mm).

5/14/24 12:45

4. Document the Date/Time sample visually assessed (mm/dd/yy hh:mm).

5/14/24 12:52

5. Document the nature of discharge (e.g., rain, snowmelt) and the TOTAL amount (in).

rain 0.25

6. Sample collected in first 30 minutes of discharge? If No or unknown, provide a reason.

- Yes

7. Color in sample? If Yes, describe.

- Yes

brown

8. Odor in sample? If Yes, describe (e.g. musty, sewage, sulfur, sour, solvent, petroleum/gas).

- Yes

musty

9. Diminished clarity of sample? If Yes, describe (e.g., slightly cloudy, cloudy, opaque).

- Yes

cloudy

10. Floating solids in sample? If Yes, describe if raw or waste material(s).

- No

11. Settled solids in sample? If Yes, describe (e.g., fine, course).

- Yes

fine

12. Suspended solids in sample? If Yes, describe (e.g., fine, course).

- No

13. Foam in sample after gently shaking? If Yes, describe foam color and location (e.g.,'on the surface' or 'in the sample').

- No

14. Oil sheen on sample? If Yes, describe color and thickness (e.g. flecks, globs).

- No

15. Other obvious indicators of stormwater pollution in sample? If Yes, describe.

- No

16. Additional information:

n/a

17. Date inspection completed.

05/14/2024

18. Time inspection completed.

12:52

19. Select inspector name.

Shendo, Marwin

20. Signature/Name
I confirm the information as recorded is true, accurate and complete.

21.

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, e.g., FOD, Ops Mgr, EPC Group or Team Leader)

22. Print name and title: Terrill W. Lemke, EPC-CP Storm Water Permitting/Compliance Team Leader

23. Signature and Date: (See signature on file)

MSGP Record Print - Non-Employee Related Questionnaire (Clone)

Questionnaire

Details

Date Of Response *	04/01/2024	**Questionnaire** *	MSGP Visual Assessment (MSGP-VISUAL)
Source	Environment Inspection/Survey Program	**QRHId**	1500
Location	MSGP02301(MSGP-0072)	**Source Id**	MSGP 2024 VA AprJun2
Created By	Banar, Alethea (108243)		

Responses

1. Document the monitoring period (e.g., Jan-Feb-Mar).

April-May-June

2. Document the Date/Time Discharge began (mm/dd/yy hh:mm).

4/1/24, unknown

3. Document the Date/Time sample collected (mm/dd/yy hh:mm).

4/1/24, unknown

4. Document the Date/Time sample visually assessed (mm/dd/yy hh:mm).

4/1/24 11:37

5. Document the nature of discharge (e.g., rain, snowmelt) and the TOTAL amount (in).

Snowmelt

6. Sample collected in first 30 minutes of discharge? If No or unknown, provide a reason.

- Yes

7. Color in sample? If Yes, describe.

- Yes

Slightly grey

8. Odor in sample? If Yes, describe (e.g. musty, sewage, sulfur, sour, solvent, petroleum/gas).

- No

9. Diminished clarity of sample? If Yes, describe (e.g., slightly cloudy, cloudy, opaque).

- Yes

Slightly cloudy

10. Floating solids in sample? If Yes, describe if raw or waste material(s).

- No

11. Settled solids in sample? If Yes, describe (e.g., fine, course).

- No

12. Suspended solids in sample? If Yes, describe (e.g., fine, course).

- Yes

Fine

13. Foam in sample after gently shaking? If Yes, describe foam color and location (e.g.,'on the surface' or 'in the sample').

- No

14. Oil sheen on sample? If Yes, describe color and thickness (e.g. flecks, globs).

- No

15. Other obvious indicators of stormwater pollution in sample? If Yes, describe.

- No

16. Additional information:

n/a

17. Date inspection completed.

04/01/2024

18. Time inspection completed.

11:37

19. Select inspector name.

Banar, Alethea

20. Signature/Name
I confirm the information as recorded is true, accurate and complete.

21.

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, e.g., FOD, Ops Mgr, EPC Group or Team Leader)

22. Print name and title: Terrill W. Lemke, EPC-CP Storm Water Permitting/Compliance Team Leader

23. Signature and Date: (See signature on file)

MSGP Record Print - Non-Employee Related Questionnaire (Clone)

Questionnaire

Details

Date Of Response *	04/01/2024	**Questionnaire** *	MSGP Visual Assessment (MSGP-VISUAL)
Source	Environment Inspection/Survey Program	**QRHId**	1502
Location	MSGP02401(MSGP-0073)	**Source Id**	MSGP 2024 VA AprJun2
Created By	Banar, Alethea (108243)		

Responses

1. Document the monitoring period (e.g., Jan-Feb-Mar).

April-May-June

2. Document the Date/Time Discharge began (mm/dd/yy hh:mm).

4/1/24, unknown

3. Document the Date/Time sample collected (mm/dd/yy hh:mm).

4/1/24, unknown

4. Document the Date/Time sample visually assessed (mm/dd/yy hh:mm).

4/1/24 11:10

5. Document the nature of discharge (e.g., rain, snowmelt) and the TOTAL amount (in).

Snowmelt

6. Sample collected in first 30 minutes of discharge? If No or unknown, provide a reason.

- Yes

7. Color in sample? If Yes, describe.

- Yes

Tan

8. Odor in sample? If Yes, describe (e.g. musty, sewage, sulfur, sour, solvent, petroleum/gas).

- No

9. Diminished clarity of sample? If Yes, describe (e.g., slightly cloudy, cloudy, opaque).

- No

10. Floating solids in sample? If Yes, describe if raw or waste material(s).

- No

11. Settled solids in sample? If Yes, describe (e.g., fine, course).

- Yes

Fine

12. Suspended solids in sample? If Yes, describe (e.g., fine, course).

- No

13. Foam in sample after gently shaking? If Yes, describe foam color and location (e.g.,'on the surface' or 'in the sample').

- No

14. Oil sheen on sample? If Yes, describe color and thickness (e.g. flecks, globs).

- Yes

Rainbow colored film on surface.

15. Other obvious indicators of stormwater pollution in sample? If Yes, describe.

- No

16. Additional information:

Notified DEP and TA-60 HEY personnel of oil sheen. Walked all upstream surfaces. No apparent oil source was found. See CA # 2383.

17. Date inspection completed.

04/01/2024

18. Time inspection completed.

11:10

19. Select inspector name.

Banar, Alethea

20. Signature/Name
I confirm the information as recorded is true, accurate and complete.

21.

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, e.g., FOD, Ops Mgr, EPC Group or Team Leader)

22. Print name and title: Terrill W. Lemke, EPC-CP Storm Water Permitting/Compliance Team Leader

23. Signature and Date: (See signature on file)

Go To Top

Documents

View Documents for this Questionnaire

Description	Document Type	Document Date

MSGP Record Print - Non-Employee Related Questionnaire (Clone)

Questionnaire

Details

Date Of Response *	04/01/2024	**Questionnaire** *	MSGP Visual Assessment (MSGP-VISUAL)
Source	Environment Inspection/Survey Program	**QRHId**	1501
Location	MSGP02501(MSGP-0074)	**Source Id**	MSGP 2024 VA AprJun2
Created By	Banar, Alethea (108243)		

Responses

1. Document the monitoring period (e.g., Jan-Feb-Mar).

April-May-June

2. Document the Date/Time Discharge began (mm/dd/yy hh:mm).

4/1/24, unknown

3. Document the Date/Time sample collected (mm/dd/yy hh:mm).

4/1/24, unknown

4. Document the Date/Time sample visually assessed (mm/dd/yy hh:mm).

4/1/24 11:05

5. Document the nature of discharge (e.g., rain, snowmelt) and the TOTAL amount (in).

Snowmelt

6. Sample collected in first 30 minutes of discharge? If No or unknown, provide a reason.

- Yes

7. Color in sample? If Yes, describe.

- Yes

Tan

8. Odor in sample? If Yes, describe (e.g. musty, sewage, sulfur, sour, solvent, petroleum/gas).

- No

9. Diminished clarity of sample? If Yes, describe (e.g., slightly cloudy, cloudy, opaque).

- No

10. Floating solids in sample? If Yes, describe if raw or waste material(s).

- No

11. Settled solids in sample? If Yes, describe (e.g., fine, course).

- Yes

Fine

12. Suspended solids in sample? If Yes, describe (e.g., fine, course).

- No

13. Foam in sample after gently shaking? If Yes, describe foam color and location (e.g.,'on the surface' or 'in the sample').

- No

14. Oil sheen on sample? If Yes, describe color and thickness (e.g. flecks, globs).

- No

15. Other obvious indicators of stormwater pollution in sample? If Yes, describe.

- No

16. Additional information:

n/a

17. Date inspection completed.

04/01/2024

18. Time inspection completed.

11:05

19. Select inspector name.

Banar, Alethea

20. Signature/Name
I confirm the information as recorded is true, accurate and complete.

21.

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, e.g., FOD, Ops Mgr, EPC Group or Team Leader)

22. Print name and title: Terrill W. Lemke, EPC-CP Storm Water Permitting/Compliance Team Leader

23. Signature and Date: (See signature on file)

Go To Top

NMR050013 MSGP 2021
TA-60-0001 Heavy Equipment Yard

Quarterly Visual Assessment Forms,
First Quarter, July through September 2024

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 Stormwater Permitting/Compliance Team Leader
Los Alamos National Laboratory

TERRILL LEMKE (Affiliate)

Digitally signed by TERRILL LEMKE (Affiliate)
Date: 2024.12.12 17:22:54 -07'00'

Manager Signature

Facility Name	Sampling Station	Inspection #
TA-60-0001 Heavy Equipment Yard	MSGP02101	MSGP-QRHId-3016
TA-60-0001 Heavy Equipment Yard	MSGP02201	MSGP-QRHId-3145
TA-60-0001 Heavy Equipment Yard	MSGP02301	MSGP-QRHId-3015
TA-60-0001 Heavy Equipment Yard	MSGP02401	MSGP-QRHId-3014
TA-60-0001 Heavy Equipment Yard	MSGP02501	MSGP-QRHId-3013

MSGP Record Print - Non-Employee Related Questionnaire (Clone)

Questionnaire

Details

Date Of Response *	07/02/2024	**Questionnaire** *	MSGP Visual Assessment (MSGP-VISUAL)
Source	Environment Inspection/Survey Program	**QRHId**	3016
Location	MSGP02101(MSGP-0071)	**Source Id**	MSGP 2024 VA JulSep
Created By	Banar, Alethea (108243)		

Responses

1. Document the monitoring period (e.g., Jan-Feb-Mar).

July-September

2. Document the Date/Time Discharge began (mm/dd/yy hh:mm).

7/1/24 17:05

3. Document the Date/Time sample collected (mm/dd/yy hh:mm).

7/1/24 17:05

4. Document the Date/Time sample visually assessed (mm/dd/yy hh:mm).

7/2/24 10:45

5. Document the nature of discharge (e.g., rain, snowmelt) and the TOTAL amount (in).

Rain 0.37 inch

6. Sample collected in first 30 minutes of discharge? If No or unknown, provide a reason.

- Yes

7. Color in sample? If Yes, describe.

- No

8. Odor in sample? If Yes, describe (e.g. musty, sewage, sulfur, sour, solvent, petroleum/gas).

- No

9. Diminished clarity of sample? If Yes, describe (e.g., slightly cloudy, cloudy, opaque).

- No

10. Floating solids in sample? If Yes, describe if raw or waste material(s).

- Yes

Vegetation

11. Settled solids in sample? If Yes, describe (e.g., fine, course).

- Yes

Course and fine

12. Suspended solids in sample? If Yes, describe (e.g., fine, course).

- No

13. Foam in sample after gently shaking? If Yes, describe foam color and location (e.g.,'on the surface' or 'in the sample').

- No

14. Oil sheen on sample? If Yes, describe color and thickness (e.g. flecks, globs).

- No

15. Other obvious indicators of stormwater pollution in sample? If Yes, describe.

- No

16. Additional information:

n/a

17. Date inspection completed.

07/02/2024

18. Time inspection completed.

10:45

19. Select inspector name.

Banar, Alethea

20. Signature/Name
I confirm the information as recorded is true, accurate and complete.

21.

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, e.g., FOD, Ops Mgr, EPC Group or Team Leader)

22. Print name and title: Terrill W. Lemke, EPC-CP Storm Water Permitting/Compliance Team Leader

23. Signature and Date: (See signature on file)

Go To Top

Documents

View Documents for this Questionnaire

Description	Document Type	Document Date

MSGP Record Print - Non-Employee Related Questionnaire (Clone)

Questionnaire

Details

Date Of Response *	07/18/2024	**Questionnaire** *	MSGP Visual Assessment (MSGP-VISUAL)
Source	Environment Inspection/Survey Program	**QRHId**	3145
Location	MSGP02201(MSGP-0070)	**Source Id**	MSGP 2024 VA JulSep
Created By	Shendo, Marwin (175810)		

Responses

1. Document the monitoring period (e.g., Jan-Feb-Mar).

jul-sept

2. Document the Date/Time Discharge began (mm/dd/yy hh:mm).

7/16/24 @ 14:16

3. Document the Date/Time sample collected (mm/dd/yy hh:mm).

7/16/24 @ 14:16

4. Document the Date/Time sample visually assessed (mm/dd/yy hh:mm).

7/18/24 @ 11:40

5. Document the nature of discharge (e.g., rain, snowmelt) and the TOTAL amount (in).

rain 0.23 (121.9 rain gage on 7/16/24)

6. Sample collected in first 30 minutes of discharge? If No or unknown, provide a reason.

- Yes

7. Color in sample? If Yes, describe.

- Yes

brown

8. Odor in sample? If Yes, describe (e.g. musty, sewage, sulfur, sour, solvent, petroleum/gas).

- Yes

musty

9. Diminished clarity of sample? If Yes, describe (e.g., slightly cloudy, cloudy, opaque).

- Yes

cloudy

10. Floating solids in sample? If Yes, describe if raw or waste material(s).

- No

11. Settled solids in sample? If Yes, describe (e.g., fine, course).

- Yes

fine

12. Suspended solids in sample? If Yes, describe (e.g., fine, course).

- No

13. Foam in sample after gently shaking? If Yes, describe foam color and location (e.g.,'on the surface' or 'in the sample').

- No

14. Oil sheen on sample? If Yes, describe color and thickness (e.g. flecks, globs).

- No

15. Other obvious indicators of stormwater pollution in sample? If Yes, describe.

- No

16. Additional information:

n/a

17. Date inspection completed.

07/18/2024

18. Time inspection completed.

11:40

19. Select inspector name.

Shendo, Marwin

20. Signature/Name
I confirm the information as recorded is true, accurate and complete.

21.

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, e.g., FOD, Ops Mgr, EPC Group or Team Leader)

22. Print name and title: Terrill W. Lemke, EPC-CP Storm Water Permitting/Compliance Team Leader

23. Signature and Date: (See signature on file)

Go To Top

Documents

View Documents for this Questionnaire

Description	Document Type	Document Date

MSGP Record Print - Non-Employee Related Questionnaire (Clone)

Questionnaire

Details

Date Of Response *	07/02/2024	**Questionnaire** *	MSGP Visual Assessment (MSGP-VISUAL)
Source	Environment Inspection/Survey Program	**QRHId**	3015
Location	MSGP02301(MSGP-0072)	**Source Id**	MSGP 2024 VA JulSep
Created By	Banar, Alethea (108243)		

Responses

1. Document the monitoring period (e.g., Jan-Feb-Mar).

July-Sept

2. Document the Date/Time Discharge began (mm/dd/yy hh:mm).

7/1/24 17:05

3. Document the Date/Time sample collected (mm/dd/yy hh:mm).

7/1/24 17:05

4. Document the Date/Time sample visually assessed (mm/dd/yy hh:mm).

7/2/24 10:37

5. Document the nature of discharge (e.g., rain, snowmelt) and the TOTAL amount (in).

Rain 0.37 inch

6. Sample collected in first 30 minutes of discharge? If No or unknown, provide a reason.

- Yes

7. Color in sample? If Yes, describe.

- Yes

Slight grey

8. Odor in sample? If Yes, describe (e.g. musty, sewage, sulfur, sour, solvent, petroleum/gas).

- No

9. Diminished clarity of sample? If Yes, describe (e.g., slightly cloudy, cloudy, opaque).

- No

10. Floating solids in sample? If Yes, describe if raw or waste material(s).

- No

11. Settled solids in sample? If Yes, describe (e.g., fine, course).

- Yes

Fine

12. Suspended solids in sample? If Yes, describe (e.g., fine, course).

- Yes

Fine

13. Foam in sample after gently shaking? If Yes, describe foam color and location (e.g.,'on the surface' or 'in the sample').

- No

14. Oil sheen on sample? If Yes, describe color and thickness (e.g. flecks, globs).

- No

15. Other obvious indicators of stormwater pollution in sample? If Yes, describe.

- No

16. Additional information:

n/a

17. Date inspection completed.

07/02/2024

18. Time inspection completed.

10:37

19. Select inspector name.

Banar, Alethea

20. Signature/Name
I confirm the information as recorded is true, accurate and complete.

21.

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, e.g., FOD, Ops Mgr, EPC Group or Team Leader)

22. Print name and title: Terrill W. Lemke, EPC-CP Storm Water Permitting/Compliance Team Leader

23. Signature and Date: (See signature on file)

Go To Top

Documents

View Documents for this Questionnaire

Description	Document Type	Document Date

MSGP Record Print - Non-Employee Related Questionnaire (Clone)

Questionnaire

Details

Date Of Response *	07/02/2024	**Questionnaire** *	MSGP Visual Assessment (MSGP-VISUAL)
Source	Environment Inspection/Survey Program	**QRHId**	3014
Location	MSGP02401(MSGP-0073)	**Source Id**	MSGP 2024 VA JulSep
Created By	Banar, Alethea (108243)		

Responses

1. Document the monitoring period (e.g., Jan-Feb-Mar).

July-Sept

2. Document the Date/Time Discharge began (mm/dd/yy hh:mm).

7/1/24 17:05

3. Document the Date/Time sample collected (mm/dd/yy hh:mm).

7/1/24 17:05

4. Document the Date/Time sample visually assessed (mm/dd/yy hh:mm).

7/2/24 10:22

5. Document the nature of discharge (e.g., rain, snowmelt) and the TOTAL amount (in).

Rain 0.37 inch

6. Sample collected in first 30 minutes of discharge? If No or unknown, provide a reason.

- Yes

7. Color in sample? If Yes, describe.

- No

8. Odor in sample? If Yes, describe (e.g. musty, sewage, sulfur, sour, solvent, petroleum/gas).

- No

9. Diminished clarity of sample? If Yes, describe (e.g., slightly cloudy, cloudy, opaque).

- No

10. Floating solids in sample? If Yes, describe if raw or waste material(s).

- Yes

vegetation

11. Settled solids in sample? If Yes, describe (e.g., fine, course).

- Yes

Course and fine

12. Suspended solids in sample? If Yes, describe (e.g., fine, course).

- No

13. Foam in sample after gently shaking? If Yes, describe foam color and location (e.g.,'on the surface' or 'in the sample').

- No

14. Oil sheen on sample? If Yes, describe color and thickness (e.g. flecks, globs).

- No

15. Other obvious indicators of stormwater pollution in sample? If Yes, describe.

- No

16. Additional information:

n/a

17. Date inspection completed.

07/02/2024

18. Time inspection completed.

10:22

19. Select inspector name.

Banar, Alethea

20. Signature/Name
I confirm the information as recorded is true, accurate and complete.

21.

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, e.g., FOD, Ops Mgr, EPC Group or Team Leader)

22. Print name and title: Terrill W. Lemke, EPC-CP Storm Water Permitting/Compliance Team Leader

23. Signature and Date: (See signature on file)

Go To Top

Documents

View Documents for this Questionnaire

Description	Document Type	Document Date

MSGP Record Print - Non-Employee Related Questionnaire (Clone)

Questionnaire

Details

Date Of Response *	07/02/2024	**Questionnaire** *	MSGP Visual Assessment (MSGP-VISUAL)
Source	Environment Inspection/Survey Program	**QRHId**	3013
Location	MSGP02501(MSGP-0074)	**Source Id**	MSGP 2024 VA JulSep
Created By	Banar, Alethea (108243)		

Responses

1. Document the monitoring period (e.g., Jan-Feb-Mar).

July-Sept

2. Document the Date/Time Discharge began (mm/dd/yy hh:mm).

7/1/24 17:05

3. Document the Date/Time sample collected (mm/dd/yy hh:mm).

7/1/24 17:05

4. Document the Date/Time sample visually assessed (mm/dd/yy hh:mm).

7/2/24 10:17

5. Document the nature of discharge (e.g., rain, snowmelt) and the TOTAL amount (in).

Rain 0.37 inch

6. Sample collected in first 30 minutes of discharge? If No or unknown, provide a reason.

- Yes

7. Color in sample? If Yes, describe.

- Yes

Slight tan

8. Odor in sample? If Yes, describe (e.g. musty, sewage, sulfur, sour, solvent, petroleum/gas).

- No

9. Diminished clarity of sample? If Yes, describe (e.g., slightly cloudy, cloudy, opaque).

- Yes

Slightly cloudy

10. Floating solids in sample? If Yes, describe if raw or waste material(s).

- No

11. Settled solids in sample? If Yes, describe (e.g., fine, course).

- Yes

Fine

12. Suspended solids in sample? If Yes, describe (e.g., fine, course).

- No

13. Foam in sample after gently shaking? If Yes, describe foam color and location (e.g.,'on the surface' or 'in the sample').

- No

14. Oil sheen on sample? If Yes, describe color and thickness (e.g. flecks, globs).

- No

15. Other obvious indicators of stormwater pollution in sample? If Yes, describe.

- No

16. Additional information:

n/a

17. Date inspection completed.

07/02/2024

18. Time inspection completed.

10:17

19. Select inspector name.

Banar, Alethea

20. Signature/Name
I confirm the information as recorded is true, accurate and complete.

21.

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, e.g., FOD, Ops Mgr, EPC Group or Team Leader)

22. Print name and title: Terrill W. Lemke, EPC-CP Storm Water Permitting/Compliance Team Leader

23. Signature and Date: (See signature on file)

Go To Top

Documents

View Documents for this Questionnaire

Description	Document Type	Document Date

NMR050013 MSGP 2021
TA-60-0001 Heavy Equipment Yard

Quarterly Visual Assessment Forms,
Second Quarter, October through December 2024

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 Stormwater Permitting/Compliance Team Leader
Los Alamos National Laboratory

TERRILL LEMKE (Affiliate)

Digitally signed by TERRILL LEMKE (Affiliate)
Date: 2025.01.06 13:18:20 -07'00'

Manager Signature

Facility Name	Sampling Station	Inspection #
TA-60-0001 Heavy Equipment Yard	MSGP02101	MSGP-QRHId-4413
TA-60-0001 Heavy Equipment Yard	MSGP02201	MSGP-QRHId-4856
TA-60-0001 Heavy Equipment Yard	MSGP02301	MSGP-QRHId-4410
TA-60-0001 Heavy Equipment Yard	MSGP02401	MSGP-QRHId-4409
TA-60-0001 Heavy Equipment Yard	MSGP02501	MSGP-QRHId-4408

MSGP Record Print - Non-Employee Related Questionnaire (Clone)

Questionnaire

Details

Date Of Response *	10/21/2024	**Questionnaire** *	MSGP Visual Assessment (MSGP-VISUAL)
Source	Environment Inspection/Survey Program	**QRHId**	4413
Location	MSGP02101(MSGP-0071)	**Source Id**	MSGP 2024 VA OctDec
Created By	Banar, Alethea (108243)		

Responses

1. Document the monitoring period (e.g., Jan-Feb-Mar).

Oct-Dec

2. Document the Date/Time Discharge began (mm/dd/yy hh:mm).

10/18/24 20:50

3. Document the Date/Time sample collected (mm/dd/yy hh:mm).

10/18/24 20:50

4. Document the Date/Time sample visually assessed (mm/dd/yy hh:mm).

10/21/24 10:45

5. Document the nature of discharge (e.g., rain, snowmelt) and the TOTAL amount (in).

Rain 1.11 inch

6. Sample collected in first 30 minutes of discharge? If No or unknown, provide a reason.

- Yes

7. Color in sample? If Yes, describe.

- Yes

Slight tan color

8. Odor in sample? If Yes, describe (e.g. musty, sewage, sulfur, sour, solvent, petroleum/gas).

- No

9. Diminished clarity of sample? If Yes, describe (e.g., slightly cloudy, cloudy, opaque).

- Yes

Slightly cloudy

10. Floating solids in sample? If Yes, describe if raw or waste material(s).

- No

11. Settled solids in sample? If Yes, describe (e.g., fine, course).

- Yes

Fine sediment

12. Suspended solids in sample? If Yes, describe (e.g., fine, course).

- No

13. Foam in sample after gently shaking? If Yes, describe foam color and location (e.g.,'on the surface' or 'in the sample').

- No

14. Oil sheen on sample? If Yes, describe color and thickness (e.g. flecks, globs).

- No

15. Other obvious indicators of stormwater pollution in sample? If Yes, describe.

- No

16. Additional information:

n/a

17. Date inspection completed.

10/21/2024

18. Time inspection completed.

10:45

19. Select inspector name.

Banar, Alethea

20. Signature/Name
I confirm the information as recorded is true, accurate and complete.

21.

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, e.g., FOD, Ops Mgr, EPC Group or Team Leader)

22. Print name and title: Terrill W. Lemke, EPC-CP Storm Water Permitting/Compliance Team Leader

23. Signature and Date: (See signature on file)

Go To Top

Documents

View Documents for this Questionnaire

Description	Document Type	Document Date

MSGP Record Print - Non-Employee Related Questionnaire (Clone)

Questionnaire

Details

Date Of Response *	11/06/2024	**Questionnaire** *	MSGP Visual Assessment (MSGP-VISUAL)
Source	Environment Inspection/Survey Program	**QRHId**	4856
Location	MSGP02201(MSGP-0070)	**Source Id**	MSGP 2024 VA OctDec
Created By	Shendo, Marwin (175810)		

Responses

1. Document the monitoring period (e.g., Jan-Feb-Mar).

oct-dec

2. Document the Date/Time Discharge began (mm/dd/yy hh:mm).

11/6/24 @ 12:24

3. Document the Date/Time sample collected (mm/dd/yy hh:mm).

11/6/24 @ 12:24

4. Document the Date/Time sample visually assessed (mm/dd/yy hh:mm).

11/6/24 @ 13:29

5. Document the nature of discharge (e.g., rain, snowmelt) and the TOTAL amount (in).

snowmelt

6. Sample collected in first 30 minutes of discharge? If No or unknown, provide a reason.

- Unknown

7. Color in sample? If Yes, describe.

- Yes

brown

8. Odor in sample? If Yes, describe (e.g. musty, sewage, sulfur, sour, solvent, petroleum/gas).

- Yes

musty

9. Diminished clarity of sample? If Yes, describe (e.g., slightly cloudy, cloudy, opaque).

- No

10. Floating solids in sample? If Yes, describe if raw or waste material(s).

- Yes

vegetation

11. Settled solids in sample? If Yes, describe (e.g., fine, course).

- No

12. Suspended solids in sample? If Yes, describe (e.g., fine, course).

- Yes

coarse

13. Foam in sample after gently shaking? If Yes, describe foam color and location (e.g.,'on the surface' or 'in the sample').

- No

14. Oil sheen on sample? If Yes, describe color and thickness (e.g. flecks, globs).

- No

15. Other obvious indicators of stormwater pollution in sample? If Yes, describe.

- No

16. Additional information:

n/a

17. Date inspection completed.

11/06/2024

18. Time inspection completed.

13:29

19. Select inspector name.

Shendo, Marwin

20. Signature/Name
I confirm the information as recorded is true, accurate and complete.

21.

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, e.g., FOD, Ops Mgr, EPC Group or Team Leader)

22. Print name and title: Terrill W. Lemke, EPC-CP Storm Water Permitting/Compliance Team Leader

23. Signature and Date: (See signature on file)

Go To Top

Documents

View Documents for this Questionnaire

Description	Document Type	Document Date

MSGP Record Print - Non-Employee Related Questionnaire (Clone)

Questionnaire

Details

Date Of Response *	10/21/2024	**Questionnaire** *	MSGP Visual Assessment (MSGP-VISUAL)
Source	Environment Inspection/Survey Program	**QRHId**	4410
Location	MSGP02301(MSGP-0072)	**Source Id**	MSGP 2024 VA OctDec
Created By	Banar, Alethea (108243)		

Responses

1. Document the monitoring period (e.g., Jan-Feb-Mar).

Oct-Dec

2. Document the Date/Time Discharge began (mm/dd/yy hh:mm).

10/18/24 20:50

3. Document the Date/Time sample collected (mm/dd/yy hh:mm).

10/18/24 20:50

4. Document the Date/Time sample visually assessed (mm/dd/yy hh:mm).

10/21/24 10:33

5. Document the nature of discharge (e.g., rain, snowmelt) and the TOTAL amount (in).

Rain 1.11 inch

6. Sample collected in first 30 minutes of discharge? If No or unknown, provide a reason.

- Yes

7. Color in sample? If Yes, describe.

- Yes

Slight brown color

8. Odor in sample? If Yes, describe (e.g. musty, sewage, sulfur, sour, solvent, petroleum/gas).

- No

9. Diminished clarity of sample? If Yes, describe (e.g., slightly cloudy, cloudy, opaque).

- No

10. Floating solids in sample? If Yes, describe if raw or waste material(s).

- No

11. Settled solids in sample? If Yes, describe (e.g., fine, course).

- Yes

Fine sediment

12. Suspended solids in sample? If Yes, describe (e.g., fine, course).

- No

13. Foam in sample after gently shaking? If Yes, describe foam color and location (e.g.,'on the surface' or 'in the sample').

- No

14. Oil sheen on sample? If Yes, describe color and thickness (e.g. flecks, globs).

- No

15. Other obvious indicators of stormwater pollution in sample? If Yes, describe.

- No

16. Additional information:

n/a

17. Date inspection completed.

10/21/2024

18. Time inspection completed.

10:33

19. Select inspector name.

Banar, Alethea

20. Signature/Name
I confirm the information as recorded is true, accurate and complete.

21.

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, e.g., FOD, Ops Mgr, EPC Group or Team Leader)

22. Print name and title: Terrill W. Lemke, EPC-CP Storm Water Permitting/Compliance Team Leader

23. Signature and Date: (See signature on file)

Go To Top

Documents

View Documents for this Questionnaire

Description	Document Type	Document Date

MSGP Record Print - Non-Employee Related Questionnaire (Clone)

Questionnaire

Details

Date Of Response *	10/21/2024	**Questionnaire** *	MSGP Visual Assessment (MSGP-VISUAL)
Source	Environment Inspection/Survey Program	**QRHId**	4409
Location	MSGP02401(MSGP-0073)	**Source Id**	MSGP 2024 VA OctDec
Created By	Banar, Alethea (108243)		

Responses

1. Document the monitoring period (e.g., Jan-Feb-Mar).

Oct-Dec

2. Document the Date/Time Discharge began (mm/dd/yy hh:mm).

10/18/24 20:50

3. Document the Date/Time sample collected (mm/dd/yy hh:mm).

10/18/24 20:50

4. Document the Date/Time sample visually assessed (mm/dd/yy hh:mm).

10/21/24 10:23

5. Document the nature of discharge (e.g., rain, snowmelt) and the TOTAL amount (in).

Rain 1.11 inch

6. Sample collected in first 30 minutes of discharge? If No or unknown, provide a reason.

- Yes

7. Color in sample? If Yes, describe.

- No

8. Odor in sample? If Yes, describe (e.g. musty, sewage, sulfur, sour, solvent, petroleum/gas).

- No

9. Diminished clarity of sample? If Yes, describe (e.g., slightly cloudy, cloudy, opaque).

- No

10. Floating solids in sample? If Yes, describe if raw or waste material(s).

- No

11. Settled solids in sample? If Yes, describe (e.g., fine, course).

- Yes

Fine and medium sediment

12. Suspended solids in sample? If Yes, describe (e.g., fine, course).

- No

13. Foam in sample after gently shaking? If Yes, describe foam color and location (e.g.,'on the surface' or 'in the sample').

- No

14. Oil sheen on sample? If Yes, describe color and thickness (e.g. flecks, globs).

- No

15. Other obvious indicators of stormwater pollution in sample? If Yes, describe.

- No

16. Additional information:

n/a

17. Date inspection completed.

10/21/2024

18. Time inspection completed.

10:23

19. Select inspector name.

Banar, Alethea

20. Signature/Name
I confirm the information as recorded is true, accurate and complete.

21.

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, e.g., FOD, Ops Mgr, EPC Group or Team Leader)

22. Print name and title: Terrill W. Lemke, EPC-CP Storm Water Permitting/Compliance Team Leader

23. Signature and Date: (See signature on file)

Go To Top

Documents

View Documents for this Questionnaire

Description	Document Type	Document Date

MSGP Record Print - Non-Employee Related Questionnaire (Clone)

Questionnaire

Details

Date Of Response *	10/21/2024	**Questionnaire** *	MSGP Visual Assessment (MSGP-VISUAL)
Source	Environment Inspection/Survey Program	**QRHId**	4408
Location	MSGP02501(MSGP-0074)	**Source Id**	MSGP 2024 VA OctDec
Created By	Banar, Alethea (108243)		

Responses

1. Document the monitoring period (e.g., Jan-Feb-Mar).

Oct-Dec

2. Document the Date/Time Discharge began (mm/dd/yy hh:mm).

10/18/24 20:50

3. Document the Date/Time sample collected (mm/dd/yy hh:mm).

10/18/24 20:50

4. Document the Date/Time sample visually assessed (mm/dd/yy hh:mm).

10/21/24 10:15

5. Document the nature of discharge (e.g., rain, snowmelt) and the TOTAL amount (in).

Rain 1.11 inch

6. Sample collected in first 30 minutes of discharge? If No or unknown, provide a reason.

- Yes

7. Color in sample? If Yes, describe.

- No

8. Odor in sample? If Yes, describe (e.g. musty, sewage, sulfur, sour, solvent, petroleum/gas).

- No

9. Diminished clarity of sample? If Yes, describe (e.g., slightly cloudy, cloudy, opaque).

- No

10. Floating solids in sample? If Yes, describe if raw or waste material(s).

- No

11. Settled solids in sample? If Yes, describe (e.g., fine, course).

- Yes

Fine sediment and vegetation

12. Suspended solids in sample? If Yes, describe (e.g., fine, course).

- No

13. Foam in sample after gently shaking? If Yes, describe foam color and location (e.g.,'on the surface' or 'in the sample').

- No

14. Oil sheen on sample? If Yes, describe color and thickness (e.g. flecks, globs).

- No

15. Other obvious indicators of stormwater pollution in sample? If Yes, describe.

- No

16. Additional information:

n/a

17. Date inspection completed.

10/21/2024

18. Time inspection completed.

10:15

19. Select inspector name.

Banar, Alethea

20. Signature/Name
I confirm the information as recorded is true, accurate and complete.

21.

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, e.g., FOD, Ops Mgr, EPC Group or Team Leader)

22. Print name and title: Terrill W. Lemke, EPC-CP Storm Water Permitting/Compliance Team Leader

23. Signature and Date: (See signature on file)

Go To Top

Documents

View Documents for this Questionnaire

Description	Document Type	Document Date

ATTACHMENT 9: CORRECTIVE ACTION DOCUMENTATION AND CERTIFICATION

MSGP-CAR REPORT

Corrective Action #	**1991**
FOD	UI
MSGP Facility Description	TA-60-0001 Heavy Equipment Yard
Inspection Date	23-JUL-2021 10:30
Date EPC Notified	23-JUL-2021 10:30
Specific Location	
Inspector Name	KNIGHT JACOB L
Person Identifying Condition	KNIGHT JACOB L
Report Status	A new corrective action
Finding Description	Control measures inadequate to meet non-numeric effluent limitations
Finding Other Description	
Outfall	NA
Problem Description	Gravel Bags {6000403100095} around outfall 23 in the lower east yard are showing signs of breaking open and need replacing. They appear functional at the moment but should be replaced so spilled contents don't impact the drop inlet.
AIM Level	NA
AIM Exception	NA
Inspection Type	Routine facility inspection
Inspection Type Other Description	
Corrective Action Description	Replaced broken gravel bags
Was the problem identified at an outfall that has associated SIDPs?	
SIDP's Affected	Specific to outfall 023
SIDP Action Taken	
Does Corrective Action require modification of SWPPP?	N
Corrective Action Initiate Date	23-JUL-2021 10:30
Corrective Action Complete Date	26-JUL-2021 09:30
Corrective Action Expected Completion Date	
Days to Take Action	0
Days Open	3
Status Description	
Date EPA Notified of Intent to Exceed 45 Days	
Date EPA Notiefied of Intent to Exceed 90 Days	
Baseline Date	

MSGP-CAR REPORT

Corrective Action #	**2000**
FOD	UI
MSGP Facility Description	TA-60-0001 Heavy Equipment Yard
Inspection Date	23-AUG-2021 13:30
Date EPC Notified	23-AUG-2021 13:30
Specific Location	
Inspector Name	KNIGHT JACOB L
Person Identifying Condition	KNIGHT JACOB L
Report Status	A new corrective action
Finding Description	Control measures not properly operated or maintained
Finding Other Description	
Outfall	NA
Problem Description	The rock check dams in the drainage channels up gradient of outfall 25 in the upper west side heavy equipment yard are in need of repair and sediment removal.
AIM Level	NA
AIM Exception	NA
Inspection Type	Routine facility inspection
Inspection Type Other Description	
Corrective Action Description	Remove sediment and rearrange rock back to functional order so that water flows over the low point of the check dam(s). on 8/21/21 excess sediment was removed and rocks were arranged to functional condition again.
Was the problem identified at an outfall that has associated SIDPs?	N
SIDP's Affected	Specific to outfall 25
SIDP Action Taken	
Does Corrective Action require modification of SWPPP?	N
Corrective Action Initiate Date	23-AUG-2021 13:45
Corrective Action Complete Date	24-AUG-2021 13:00
Corrective Action Expected Completion Date	
Days to Take Action	0
Days Open	1
Status Description	
Date EPA Notified of Intent to Exceed 45 Days	
Date EPA Notiefied of Intent to Exceed 90 Days	
Baseline Date	

MSGP-CAR REPORT

Corrective Action #	**2001**
FOD	UI
MSGP Facility Description	TA-60-0001 Heavy Equipment Yard
Inspection Date	23-AUG-2021 13:30
Date EPC Notified	23-AUG-2021 13:30
Specific Location	
Inspector Name	KNIGHT JACOB L
Person Identifying Condition	KNIGHT JACOB L
Report Status	A new corrective action
Finding Description	Unauthorized release or discharge
Finding Other Description	
Outfall	NA
Problem Description	While refueling a LANL truck in the designated refueling area approx. 1 cup of fuel splashed onto the asphalt (this has occurred previously as well).
AIM Level	NA
AIM Exception	NA
Inspection Type	Routine facility inspection
Inspection Type Other Description	
Corrective Action Description	Absorbent was disposed of and micro-blaze was applied. Crews will utilize spill pads or other controls more pro-actively instead of responding to fuel spillage on asphalt.
Was the problem identified at an outfall that has associated SIDPs?	
SIDP's Affected	
SIDP Action Taken	
Does Corrective Action require modification of SWPPP?	N
Corrective Action Initiate Date	23-AUG-2021 13:45
Corrective Action Complete Date	23-AUG-2021 15:00
Corrective Action Expected Completion Date	
Days to Take Action	0
Days Open	0
Status Description	
Date EPA Notified of Intent to Exceed 45 Days	
Date EPA Notiefied of Intent to Exceed 90 Days	
Baseline Date	

MSGP-CAR REPORT

Corrective Action #	**2002**
FOD	UI
MSGP Facility Description	TA-60-0001 Heavy Equipment Yard
Inspection Date	23-AUG-2021 13:30
Date EPC Notified	23-AUG-2021 13:30
Specific Location	
Inspector Name	KNIGHT JACOB L
Person Identifying Condition	KNIGHT JACOB L
Report Status	A new corrective action
Finding Description	Control measures inadequate to meet non-numeric effluent limitations
Finding Other Description	
Outfall	NA
Problem Description	A rusting carbon steel pipe is staged outside of the metal storage canopy in the SE corner of the upper yard on the east side of 60-1.
AIM Level	NA
AIM Exception	NA
Inspection Type	Routine facility inspection
Inspection Type Other Description	
Corrective Action Description	Cover pipe or stage inside the canopy. It was placed under the canopy after the inspection.
Was the problem identified at an outfall that has associated SIDPs?	
SIDP's Affected	
SIDP Action Taken	
Does Corrective Action require modification of SWPPP?	N
Corrective Action Initiate Date	23-AUG-2021 13:30
Corrective Action Complete Date	23-AUG-2021 14:30
Corrective Action Expected Completion Date	
Days to Take Action	0
Days Open	0
Status Description	
Date EPA Notified of Intent to Exceed 45 Days	
Date EPA Notiefied of Intent to Exceed 90 Days	
Baseline Date	

MSGP-CAR REPORT

Corrective Action #	**2009**
FOD	UI
MSGP Facility Description	TA-60-0001 Heavy Equipment Yard
Inspection Date	17-SEP-2021 11:30
Date EPC Notified	17-SEP-2021 11:30
Specific Location	
Inspector Name	KNIGHT JACOB L
Person Identifying Condition	KNIGHT JACOB L
Report Status	A new corrective action
Finding Description	Unauthorized release or discharge
Finding Other Description	
Outfall	NA
Problem Description	During efforts to calibrate deicer sprayers on ATVs an abnormal amount drained onto pavement and soil in the lower east yard at the heavy equipment shop.
AIM Level	NA
AIM Exception	NA
Inspection Type	Routine facility inspection
Inspection Type Other Description	
Corrective Action Description	Sweep the pavement and when calibrating the deicer sprayers take efforts to minimize spills of the material. The material was swept with the sweeper truck at 2:30 pm 9/17/2021
Was the problem identified at an outfall that has associated SIDPs?	
SIDP's Affected	
SIDP Action Taken	
Does Corrective Action require modification of SWPPP?	N
Corrective Action Initiate Date	17-SEP-2021 13:30
Corrective Action Complete Date	17-SEP-2021 14:30
Corrective Action Expected Completion Date	
Days to Take Action	0
Days Open	0
Status Description	
Date EPA Notified of Intent to Exceed 45 Days	
Date EPA Notiefied of Intent to Exceed 90 Days	
Baseline Date	

MSGP-CAR REPORT

Corrective Action #	**2020**
FOD	UI
MSGP Facility Description	TA-60-0001 Heavy Equipment Yard
Inspection Date	15-OCT-2021 11:15
Date EPC Notified	15-OCT-2021 11:15
Specific Location	
Inspector Name	KNIGHT JACOB L
Person Identifying Condition	KNIGHT JACOB L
Report Status	A new corrective action
Finding Description	Control measures inadequate to meet non-numeric effluent limitations
Finding Other Description	Housekeeping
Outfall	NA
Problem Description	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.
AIM Level	NA
AIM Exception	NA
Inspection Type	Routine facility inspection
Inspection Type Other Description	
Corrective Action Description	The trash in the drainage areas was picked up during the inspection. The cleanup along the south perimeter was completed by logistics laborers for the fencing project on 10/19/2021.
Was the problem identified at an outfall that has associated SIDPs?	
SIDP's Affected	
SIDP Action Taken	
Does Corrective Action require modification of SWPPP?	N
Corrective Action Initiate Date	15-OCT-2021 11:15
Corrective Action Complete Date	19-OCT-2021 13:30
Corrective Action Expected Completion Date	
Days to Take Action	0
Days Open	4
Status Description	
Date EPA Notified of Intent to Exceed 45 Days	
Date EPA Notiefied of Intent to Exceed 90 Days	
Baseline Date	

MSGP-CAR REPORT

Corrective Action #	**2021**
FOD	UI
MSGP Facility Description	TA-60-0001 Heavy Equipment Yard
Inspection Date	15-OCT-2021 11:15
Date EPC Notified	15-OCT-2021 11:15
Specific Location	
Inspector Name	KNIGHT JACOB L
Person Identifying Condition	KNIGHT JACOB L
Report Status	A new corrective action
Finding Description	Unauthorized release or discharge
Finding Other Description	
Outfall	NA
Problem Description	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.
AIM Level	NA
AIM Exception	NA
Inspection Type	Routine facility inspection
Inspection Type Other Description	
Corrective Action Description	Spill was cleaned to the extent practicable and treated with micro blaze.
Was the problem identified at an outfall that has associated SIDPs?	
SIDP's Affected	
SIDP Action Taken	
Does Corrective Action require modification of SWPPP?	N
Corrective Action Initiate Date	15-OCT-2021 11:15
Corrective Action Complete Date	15-OCT-2021 12:15
Corrective Action Expected Completion Date	
Days to Take Action	0
Days Open	0
Status Description	
Date EPA Notified of Intent to Exceed 45 Days	
Date EPA Notiefied of Intent to Exceed 90 Days	
Baseline Date	

MSGP-CAR REPORT

Corrective Action #	**2025**
FOD	UI
MSGP Facility Description	TA-60-0001 Heavy Equipment Yard
Inspection Date	03-NOV-2021 11:15
Date EPC Notified	03-NOV-2021 11:15
Specific Location	
Inspector Name	KNIGHT JACOB L
Person Identifying Condition	KNIGHT JACOB L
Report Status	A new corrective action
Finding Description	Unauthorized release or discharge
Finding Other Description	
Outfall	NA
Problem Description	A LANL sanitary truck that was parked at the Heavy Equipment yard was started up which pressurized the the Diesel Exhaust Fluid (DEF) system. Once pressurized approx. 1.5 gallons leaked out of a failed gasket on the DEF tank to the asphalt.
AIM Level	NA
AIM Exception	NA
Inspection Type	Other (describe) :
Inspection Type Other Description	Spill reported
Corrective Action Description	Absorbents were applied by facility personnel. The gasket and housing on the DEF tank was replaced so that it wouldn't leak again. The release did not reach any storm drains and was confined to pavement. Micro blaze was also applied.
Was the problem identified at an outfall that has associated SIDPs?	
SIDP's Affected	
SIDP Action Taken	
Does Corrective Action require modification of SWPPP?	N
Corrective Action Initiate Date	03-NOV-2021 11:15
Corrective Action Complete Date	03-NOV-2021 11:45
Corrective Action Expected Completion Date	
Days to Take Action	0
Days Open	0
Status Description	
Date EPA Notified of Intent to Exceed 45 Days	
Date EPA Notiefied of Intent to Exceed 90 Days	
Baseline Date	

MSGP-CAR REPORT

Corrective Action #	**2035**
FOD	UI
MSGP Facility Description	TA-60-0001 Heavy Equipment Yard
Inspection Date	15-NOV-2021 14:15
Date EPC Notified	15-NOV-2021 14:15
Specific Location	
Inspector Name	KNIGHT JACOB L
Person Identifying Condition	KNIGHT JACOB L
Report Status	A new corrective action
Finding Description	Control measures inadequate to meet non-numeric effluent limitations
Finding Other Description	
Outfall	NA
Problem Description	In the lower east yard there was some cut aluminum sheets and other metal that were relocated from inside a shed to outside and are uncovered/exposed.
AIM Level	NA
AIM Exception	NA
Inspection Type	Routine facility inspection
Inspection Type Other Description	
Corrective Action Description	The metal pieces were placed in an enclosure.
Was the problem identified at an outfall that has associated SIDPs?	
SIDP's Affected	
SIDP Action Taken	
Does Corrective Action require modification of SWPPP?	N
Corrective Action Initiate Date	15-NOV-2021 14:15
Corrective Action Complete Date	16-NOV-2021 13:30
Corrective Action Expected Completion Date	
Days to Take Action	0
Days Open	1
Status Description	
Date EPA Notified of Intent to Exceed 45 Days	
Date EPA Notiefied of Intent to Exceed 90 Days	
Baseline Date	

MSGP-CAR REPORT

Corrective Action #	**2052**
FOD	IF
MSGP Facility Description	TA-60-0001 Heavy Equipment Yard
Inspection Date	09-DEC-2021 14:30
Date EPC Notified	09-DEC-2021 14:30
Specific Location	Concrete apron for vehicle wash area that drains to oil/water separator at the TA-60-1 Heavy Equipment Yard.
Inspector Name	WHEELER HOLLY L
Person Identifying Condition	WHEELER HOLLY L
Report Status	A new corrective action
Finding Description	Unauthorized release or discharge
Finding Other Description	
Outfall	NA
Problem Description	At the NE corner of TA-60-1, there is an area on the concrete apron that has deteriorated and has formed a depression. Water was present in the depression that had an oil sheen on it.
AIM Level	NA
AIM Exception	NA
Inspection Type	Routine facility inspection
Inspection Type Other Description	
Corrective Action Description	Oil absorbent pads were applied to the sheen at 2:40 pm. Sheen was verified removed morning of 12/10/2021. An existing FSR is in place to fix the concrete and install a new berm.
Was the problem identified at an outfall that has associated SIDPs?	N
SIDP's Affected	N/A
SIDP Action Taken	N/A
Does Corrective Action require modification of SWPPP?	N
Corrective Action Initiate Date	09-DEC-2021 14:40
Corrective Action Complete Date	10-DEC-2021 09:30
Corrective Action Expected Completion Date	
Days to Take Action	0
Days Open	1
Status Description	N/A
Date EPA Notified of Intent to Exceed 45 Days	
Date EPA Notiefied of Intent to Exceed 90 Days	
Baseline Date	

MSGP-CAR REPORT

Corrective Action #	**2035**
FOD	IF
MSGP Facility Description	TA-60-0001 Heavy Equipment Yard
Inspection Date	09-DEC-2021 14:50
Date EPC Notified	09-DEC-2021 14:50
Specific Location	East side of TA-60-1 outside of the battery shed.
Inspector Name	WHEELER HOLLY L
Person Identifying Condition	WHEELER HOLLY L
Report Status	A new corrective action
Finding Description	Unauthorized release or discharge
Finding Other Description	
Outfall	NA
Problem Description	On the east side of TA-60-1, outside of the battery shed, three batteries were being stored outside of the shed and were leaking.
AIM Level	NA
AIM Exception	NA
Inspection Type	Routine facility inspection
Inspection Type Other Description	
Corrective Action Description	The batteries were placed in the shed, materials used to absorb the spill were disposed of and the acid was neutralized.
Was the problem identified at an outfall that has associated SIDPs?	N
SIDP's Affected	N/A
SIDP Action Taken	N/A
Does Corrective Action require modification of SWPPP?	N
Corrective Action Initiate Date	09-DEC-2021 14:59
Corrective Action Complete Date	09-DEC-2021 15:30
Corrective Action Expected Completion Date	
Days to Take Action	0
Days Open	0
Status Description	N/A
Date EPA Notified of Intent to Exceed 45 Days	
Date EPA Notiefied of Intent to Exceed 90 Days	
Baseline Date	

MSGP-CAR REPORT

Corrective Action #	**2062**
FOD	IF
MSGP Facility Description	TA-60-0001 Heavy Equipment Yard
Inspection Date	19-JAN-2022 15:00
Date EPC Notified	19-JAN-2022 15:00
Specific Location	Outfall 022 at the TA-60-1 Heavy Equipment Yard
Inspector Name	WHEELER HOLLY L
Person Identifying Condition	WHEELER HOLLY L
Report Status	A new corrective action
Finding Description	Average benchmark value exceedance
Finding Other Description	
Outfall	022
Problem Description	The average concentration of Nitrate plus Nitrite Nitrogen discharged from outfall 022 at the TA-60-1 Heavy Equipment Yard was mathematically certain to exceed the benchmark value. This average was calculated from monitoring results associated with storm events occurring on 07/11/2021 and 12/24/2021 and individual analytical results of 1.3 mg/L and 1.48 mg/L. The average was 1.39 mg/L. The benchmark value is 0.68 mg/L.
AIM Level	1
AIM Exception	NA
Inspection Type	Benchmark monitoring
Inspection Type Other Description	
Corrective Action Description	Facility personnel shall evaluate potential pollutant sources of Nitrate plus Nitrite Nitrogen and implement additional controls to ensure discharge of this pollutant source in stormwater is minimized. Updates as of02/02/2022: - Site was evaluated for potential pollutants on 1/20/2022 and there was a small pile of cut steel and another of cut aluminum that was uncovered and have since been covered. Metal cutting and welding operations were being conducted inside for vehicle modifications. These sources aren't likely contributing to Nitrate Nitrite Nitrogen and according to the 2021 MSGP fact sheet for Sector AA Nitrate Nitrite Nitrogen is a potential pollutant for metal surface treatment activities, which is not conducted at this facility. Metal fab. activities at this facility are associated with working on vehicles. Examples of some of the activities include installing headache racks, tailgates, ladder racks, and working on snowplows. - It is anticipated that elevated levels of nitrogen may be a byproduct of wildlife in the area that is often observed such as deer, elk, and bear. There is a small stormwater pond that holds water in the drainage ditch up gradient of the monitored outfall. Recently there has been snow in the channel but at the earliest opportunity the watershed will be evaluated for signs of pollutants associated with wildlife activity and cleaned up to the extent practicable. - A meeting was conducted to look into the possibility of demonstrating that Nitrate Nitrite Nitrogen does not exceed water quality standards, and submit findings to the EPA for approval of this exception. This may not be a feasible course of action but it will be looked into. - On 2/14/22 the PPT met to discuss metal fab activities and potential nitrogen sources at the site. There was a commitment to ensure metal outside remains covered and there are conex boxes being delivered to this site for metal storage as soon as early March 2022. Cutting and welding activities occur inside the bay and not outdoors, and are not likely to be a source of Nitrate Nitrite Nitrogen. Upon evaluation of the channel swale that delivers stormwwater to the monitored outfall it was noted that there was lots of deer and elk droppings in the swale and on the banks. On 2/15/2022 laborers cleaned out the swale to the extent practicable.
Was the problem identified at an outfall that has associated SIDPs?	Y
SIDP's Affected	022, 021 and 023 depending on identification of a source.

MSGP-CAR REPORT

SIDP Action Taken	Since outfall 022 is associated with substantially identical discharge points (SIDPs) 021 and 023 (which are located along the same drainage channel), facility personnel must also assess the need for corrective action at these additional discharge points and document how the corrective action was appropriate for all SIDPs, document why the exceedance would not affect these discharge points, or document additional corrective action taken specific to either of these discharge points.
Does Corrective Action require modification of SWPPP?	Y
Corrective Action Initiate Date	20-JAN-2022 10:30
Corrective Action Complete Date	15-FEB-2022 17:00
Corrective Action Expected Completion Date	
Days to Take Action	1
Days Open	27
Status Description	
Date EPA Notified of Intent to Exceed 45 Days	
Date EPA Notiefied of Intent to Exceed 90 Days	
Baseline Date	04-OCT-2022 00:00

MSGP-CAR REPORT

Corrective Action #	**2063**
FOD	IF
MSGP Facility Description	TA-60-0001 Heavy Equipment Yard
Inspection Date	20-JAN-2022 11:00
Date EPC Notified	20-JAN-2022 11:00
Specific Location	
Inspector Name	KNIGHT JACOB L
Person Identifying Condition	KNIGHT JACOB L
Report Status	A new corrective action
Finding Description	Control measures inadequate to meet non-numeric effluent limitations
Finding Other Description	
Outfall	NA
Problem Description	Aluminum and cut steel metal plates were found uncovered (exposed to stormwater) at the lower yard and the NW corner of TA-60-1 Heavy Equipment Yard.
AIM Level	NA
AIM Exception	NA
Inspection Type	Routine facility inspection
Inspection Type Other Description	
Corrective Action Description	Aluminum was placed under the canopy and the cut steel places were placed under tarp cover again.
Was the problem identified at an outfall that has associated SIDPs?	
SIDP's Affected	
SIDP Action Taken	
Does Corrective Action require modification of SWPPP?	N
Corrective Action Initiate Date	20-JAN-2022 11:00
Corrective Action Complete Date	20-JAN-2022 15:00
Corrective Action Expected Completion Date	
Days to Take Action	0
Days Open	0
Status Description	
Date EPA Notified of Intent to Exceed 45 Days	
Date EPA Notiefied of Intent to Exceed 90 Days	
Baseline Date	

MSGP-CAR REPORT

Corrective Action #	**2073**
FOD	IF
MSGP Facility Description	TA-60-0001 Heavy Equipment Yard
Inspection Date	22-FEB-2022 13:00
Date EPC Notified	22-FEB-2022 13:00
Specific Location	
Inspector Name	KNIGHT JACOB L
Person Identifying Condition	KNIGHT JACOB L
Report Status	A new corrective action
Finding Description	Unauthorized release or discharge
Finding Other Description	
Outfall	NA
Problem Description	There was spilled fuel and absorbent material on the asphalt near the fueling truck
AIM Level	NA
AIM Exception	NA
Inspection Type	Routine facility inspection
Inspection Type Other Description	
Corrective Action Description	The absorbents were cleaned up and the area was micro-blazed. Mats with absorbent pads under will be used again to help prevent fuel contact onto asphalt.
Was the problem identified at an outfall that has associated SIDPs?	
SIDP's Affected	
SIDP Action Taken	
Does Corrective Action require modification of SWPPP?	N
Corrective Action Initiate Date	22-FEB-2022 13:00
Corrective Action Complete Date	22-FEB-2022 15:00
Corrective Action Expected Completion Date	
Days to Take Action	0
Days Open	0
Status Description	
Date EPA Notified of Intent to Exceed 45 Days	
Date EPA Notiefied of Intent to Exceed 90 Days	
Baseline Date	

MSGP-CAR REPORT

Corrective Action #	**2074**
FOD	IF
MSGP Facility Description	TA-60-0001 Heavy Equipment Yard
Inspection Date	22-FEB-2022 13:00
Date EPC Notified	22-FEB-2022 13:00
Specific Location	
Inspector Name	KNIGHT JACOB L
Person Identifying Condition	KNIGHT JACOB L
Report Status	A new corrective action
Finding Description	Unauthorized release or discharge
Finding Other Description	
Outfall	NA
Problem Description	Due to snow removal activities there is sediment and base course in the asphalt swale at SIDP 024 near the NW corner of TA-60-1. The metallox wattle 6000403200094 in the swale is partially buried as well.
AIM Level	NA
AIM Exception	NA
Inspection Type	Routine facility inspection
Inspection Type Other Description	
Corrective Action Description	Clean out the swale and return the wattle to a functional condition. On 2/22/22 at 2:30 pm laborers cleaned out the material in the swale and replaced the wattle with a new one.
Was the problem identified at an outfall that has associated SIDPs?	
SIDP's Affected	Specific to SIDP 024 only
SIDP Action Taken	
Does Corrective Action require modification of SWPPP?	N
Corrective Action Initiate Date	22-FEB-2022 13:00
Corrective Action Complete Date	22-FEB-2022 14:30
Corrective Action Expected Completion Date	
Days to Take Action	0
Days Open	0
Status Description	
Date EPA Notified of Intent to Exceed 45 Days	
Date EPA Notiefied of Intent to Exceed 90 Days	
Baseline Date	

MSGP-CAR REPORT

Corrective Action #	**2075**
FOD	IF
MSGP Facility Description	TA-60-0001 Heavy Equipment Yard
Inspection Date	22-FEB-2022 13:00
Date EPC Notified	22-FEB-2022 13:00
Specific Location	
Inspector Name	KNIGHT JACOB L
Person Identifying Condition	KNIGHT JACOB L
Report Status	A new corrective action
Finding Description	Control measures inadequate to meet non-numeric effluent limitations
Finding Other Description	
Outfall	NA
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
AIM Level	NA
AIM Exception	NA
Inspection Type	Routine facility inspection
Inspection Type Other Description	
Corrective Action Description	The metal was placed in the tarp covered metal recycle bin.
Was the problem identified at an outfall that has associated SIDPs?	
SIDP's Affected	
SIDP Action Taken	
Does Corrective Action require modification of SWPPP?	N
Corrective Action Initiate Date	22-FEB-2022 13:00
Corrective Action Complete Date	22-FEB-2022 15:00
Corrective Action Expected Completion Date	
Days to Take Action	0
Days Open	0
Status Description	
Date EPA Notified of Intent to Exceed 45 Days	
Date EPA Notiefied of Intent to Exceed 90 Days	
Baseline Date	

MSGP-CAR REPORT

Corrective Action #	**2081**
FOD	IF
MSGP Facility Description	TA-60-0001 Heavy Equipment Yard
Inspection Date	22-MAR-2022 13:45
Date EPC Notified	22-MAR-2022 14:00
Specific Location	
Inspector Name	KNIGHT JACOB L
Person Identifying Condition	KNIGHT JACOB L
Report Status	A new corrective action
Finding Description	Unauthorized release or discharge
Finding Other Description	
Outfall	NA
Problem Description	AT the southeast corner of TA-60-1 HEY a roads and grounds driver / operator inadvertently activated the Commercial Deicer in the back of the truck while waiting to get the truck fueled. Approximately 25 to 30 gallons of CRYOTECH CF7 potassium acetate deicer was spilled before the deicer could be shut off. Per the SDS, the mix is 50% water and 50% Potassium Acetate. The mixture did flow east towards a Petrol Barrier Box. The asphalt berm stopped a majority of the mixture but a small area around the box was wet. Two white filters were also wet but there were no signs the mixture made it past the box (outfall was dry).
AIM Level	NA
AIM Exception	NA
Inspection Type	Other (describe) :
Inspection Type Other Description	Spill coordination
Corrective Action Description	Logistics/R&G cleaned and swept the paved area, cleaned around the Petrol Barrier Box, and replaced both pads on top of the box.
Was the problem identified at an outfall that has associated SIDPs?	
SIDP's Affected	
SIDP Action Taken	
Does Corrective Action require modification of SWPPP?	N
Corrective Action Initiate Date	22-MAR-2022 14:20
Corrective Action Complete Date	23-MAR-2022 13:00
Corrective Action Expected Completion Date	
Days to Take Action	0
Days Open	1
Status Description	
Date EPA Notified of Intent to Exceed 45 Days	
Date EPA Notiefied of Intent to Exceed 90 Days	
Baseline Date	

MSGP-CAR REPORT

Corrective Action #	**2082**
FOD	IF
MSGP Facility Description	TA-60-0001 Heavy Equipment Yard
Inspection Date	24-MAR-2022 13:30
Date EPC Notified	24-MAR-2022 13:30
Specific Location	Throughout the Heavy Equipment Yard facility including slopes and drainages
Inspector Name	KNIGHT JACOB L
Person Identifying Condition	KNIGHT JACOB L
Report Status	A new corrective action
Finding Description	Control measures inadequate to meet non-numeric effluent limitations
Finding Other Description	Housekeeping
Outfall	NA
Problem Description	There is trash along the north perimeter, trash near and within outfalls 21, 22, and 24, and trash and debris at the metal rack on the west side of 60-1. There has been recent wind and housekeeping is needed.
AIM Level	NA
AIM Exception	NA
Inspection Type	Routine facility inspection
Inspection Type Other Description	
Corrective Action Description	Pick up trash and debris. Ensure dumpster lids always remain closed. Ensure routine housekeeping is conducted. On 3/31/22 @ 2:00 pm a full housekeeping sweep with R&G laborers was conducted and all trash and debris was collected and properly disposed of.
Was the problem identified at an outfall that has associated SIDPs?	Y
SIDP's Affected	Outfalls 21, 22, and 24 all need housekeeping efforts.
SIDP Action Taken	All outfalls and drainage areas will be cleaned up.
Does Corrective Action require modification of SWPPP?	N
Corrective Action Initiate Date	24-MAR-2022 13:30
Corrective Action Complete Date	31-MAR-2022 14:00
Corrective Action Expected Completion Date	
Days to Take Action	0
Days Open	7
Status Description	
Date EPA Notified of Intent to Exceed 45 Days	
Date EPA Notiefied of Intent to Exceed 90 Days	
Baseline Date	

MSGP-CAR REPORT

Corrective Action #	**2085**
FOD	IF
MSGP Facility Description	TA-60-0001 Heavy Equipment Yard
Inspection Date	04-APR-2022 10:30
Date EPC Notified	04-APR-2022 10:30
Specific Location	Outfall 022 at the TA-60-1 Heavy Equipment Yard
Inspector Name	WHEELER HOLLY L
Person Identifying Condition	WHEELER HOLLY L
Report Status	A new corrective action
Finding Description	Average benchmark value exceedance
Finding Other Description	
Outfall	022
Problem Description	The average concentration of total recoverable Aluminum discharged from outfall 022 at the TA-60-1 Heavy Equipment Yard was mathematically certain to exceed the benchmark value. This average was calculated from monitoring results associated with storm events occurring on 07/11/2021, 12/24/2021 and 03/17/2022 with individual analytical results of 755 ug/L, 922 ug/l and 3860 ug/L. The average was 1845.67 ug/L. The benchmark value is 1100 ug/L.
AIM Level	1
AIM Exception	NA
Inspection Type	Benchmark monitoring
Inspection Type Other Description	
Corrective Action Description	Facility personnel shall evaluate potential pollutant sources of total recoverable Aluminum and implement additional controls to ensure discharge of this pollutant source in stormwater is minimized. On 4/6/22 a walk down was conducted and along with housekeeping efforts. It was discovered that a pallet of sirens with aluminum backing was sitting above outfall 22,. They were upside down so the aluminum was in contact with the snow melt storm event (the pallet had been there about a month). The pallet was moved inside the metal storage canopy. It was also noted that Roads and Grounds crews replaced all the metallox wattles within the facility in February except for the ones just up gradient of outfall 22 in the channel because they were frozen/stuck. Roads and grounds came back on 3/18/22 and replaced those, a day after the sample was taken that had a high aluminum reading. On 4/7/22 a walk down was conducted with facility and FOD operations and building managers, Deputy FOD for IF, EPC Stormwater Team Lead, MSGP program lead, and lead site superintendent on site to discuss MSGP/AIM Level requirements and general site conditions. Of note also is that facility just installed 4 conex boxes for metal storage capacity.
Was the problem identified at an outfall that has associated SIDPs?	Y
SIDP's Affected	022, 021 and 023 depending on identification of a source.
SIDP Action Taken	Since outfall 022 is associated with substantially identical discharge points (SIDPs) 021 and 023 (which are located along the same drainage channel), facility personnel must also assess the need for corrective action at these additional discharge points and document how the corrective action was appropriate for all SIDPs, document why the exceedance would not affect these discharge points, or document additional corrective action taken specific to these discharge points.
Does Corrective Action require modification of SWPPP?	Y
Corrective Action Initiate Date	05-APR-2022 10:00
Corrective Action Complete Date	07-APR-2022 15:00
Corrective Action Expected Completion Date	
Days to Take Action	1
Days Open	3
Status Description	

MSGP-CAR REPORT

Date EPA Notified of Intent to Exceed 45 Days	
Date EPA Notiefied of Intent to Exceed 90 Days	
Baseline Date	

MSGP-CAR REPORT

Corrective Action #	**2091**
FOD	IF
MSGP Facility Description	TA-60-0001 Heavy Equipment Yard
Inspection Date	22-APR-2022 09:26
Date EPC Notified	22-APR-2022 09:26
Specific Location	Gravel parking lot West of TA-60 Heavy Equipment Yard.
Inspector Name	SANDOVAL LEONARD F
Person Identifying Condition	SANDOVAL LEONARD F
Report Status	A new corrective action
Finding Description	Unauthorized release or discharge
Finding Other Description	
Outfall	NA
Problem Description	EPC-CP was notified of a diesel spill on base course in the parking lot west of TA-60-0001 HEY. HAZMAT also responded to the spill and delegated the spill clean up to Roads and Grounds. The spill clean up generated a 55 gallon drum of base course material that will be managed as N.M. Special Waste.
AIM Level	NA
AIM Exception	NA
Inspection Type	Other (describe) :
Inspection Type Other Description	Response to a diesel fuel spill.
Corrective Action Description	EPC-CP was notified of a diesel spill on base course in the parking lot west of TA-60-0001 HEY. HAZMAT also responded to the spill and delegated the spill clean up to Roads and Grounds. The spill clean up generated a 55 gallon drum of base course material that will be managed as N.M. Special Waste.
Was the problem identified at an outfall that has associated SIDPs?	N
SIDP's Affected	
SIDP Action Taken	
Does Corrective Action require modification of SWPPP?	N
Corrective Action Initiate Date	22-APR-2022 09:26
Corrective Action Complete Date	22-APR-2022 11:05
Corrective Action Expected Completion Date	05-MAY-2022 17:00
Days to Take Action	0
Days Open	0
Status Description	
Date EPA Notified of Intent to Exceed 45 Days	
Date EPA Notiefied of Intent to Exceed 90 Days	
Baseline Date	

MSGP-CAR REPORT

Corrective Action #	**2096**
FOD	IF
MSGP Facility Description	TA-60-0001 Heavy Equipment Yard
Inspection Date	09-JUN-2022 12:45
Date EPC Notified	09-JUN-2022 12:45
Specific Location	
Inspector Name	KNIGHT JACOB L
Person Identifying Condition	KNIGHT JACOB L
Report Status	A new corrective action
Finding Description	Unauthorized release or discharge
Finding Other Description	
Outfall	NA
Problem Description	On 6/2/2022 an excavator with a masticator attachment was performing work along SR 4. The masticator attachment failed and released hydraulic fluid. The spill was contained and the equipment was transferred to the Heavy Equipment Yard and placed on the concrete pad that drains to the oil water separator. The leaking attachment was wrapped with plastic, and placed on a secondary containment pan and had oil absorbents placed. The oil has since leaked through the plastic and past some of the absorbent controls and onto a puddle of water.
AIM Level	NA
AIM Exception	NA
Inspection Type	Other (describe) :
Inspection Type Other Description	Observed during a walk down for a concrete repair project
Corrective Action Description	Clean up the saturated absorbents and replace/maintain absorbent controls to the extent practicable to minimize oil discharge to the oil water separator. Clean oil sheen on water with oil absorbent pad and if possible remove stained soil where the large pothole is on the pad. As of 6/10/22 3:00 pm this has been completed and it will continue to be monitored and have controls replaced as necessary.
Was the problem identified at an outfall that has associated SIDPs?	
SIDP's Affected	
SIDP Action Taken	
Does Corrective Action require modification of SWPPP?	N
Corrective Action Initiate Date	09-JUN-2022 13:15
Corrective Action Complete Date	10-JUN-2022 15:00
Corrective Action Expected Completion Date	
Days to Take Action	0
Days Open	1
Status Description	
Date EPA Notified of Intent to Exceed 45 Days	
Date EPA Notiefied of Intent to Exceed 90 Days	
Baseline Date	

MSGP-CAR REPORT

Corrective Action #	**2100**
FOD	IF
MSGP Facility Description	TA-60-0001 Heavy Equipment Yard
Inspection Date	16-JUN-2022 09:00
Date EPC Notified	16-JUN-2022 09:00
Specific Location	Outside of lower west bay on concrete pad
Inspector Name	KNIGHT JACOB L
Person Identifying Condition	KNIGHT JACOB L
Report Status	A new corrective action
Finding Description	Unauthorized release or discharge
Finding Other Description	
Outfall	NA
Problem Description	There was a large fire truck on stands being worked on outside the northwest corner of TA-60-1. There were some drips and spills of oil on the concrete (~less than half a cup) underneath with very little spill controls being used.
AIM Level	NA
AIM Exception	NA
Inspection Type	Routine facility inspection
Inspection Type Other Description	
Corrective Action Description	Additional spill pads were added during the work. The work on the truck was completed and before the truck was lowered to the ground the oil was cleaned up and had microblaze applied.
Was the problem identified at an outfall that has associated SIDPs?	
SIDP's Affected	
SIDP Action Taken	
Does Corrective Action require modification of SWPPP?	N
Corrective Action Initiate Date	16-JUN-2022 09:15
Corrective Action Complete Date	16-JUN-2022 13:00
Corrective Action Expected Completion Date	
Days to Take Action	0
Days Open	0
Status Description	
Date EPA Notified of Intent to Exceed 45 Days	
Date EPA Notiefied of Intent to Exceed 90 Days	
Baseline Date	

MSGP-CAR REPORT

Corrective Action #	**2112**
FOD	IF
MSGP Facility Description	TA-60-0001 Heavy Equipment Yard
Inspection Date	24-JUN-2022 08:00
Date EPC Notified	24-JUN-2022 08:00
Specific Location	West side equipment parking area
Inspector Name	KNIGHT JACOB L
Person Identifying Condition	
Report Status	A new corrective action
Finding Description	Unauthorized release or discharge
Finding Other Description	
Outfall	NA
Problem Description	EPC-CP responded to a dirt area on the west side of TA-60-0001 for a hydraulic spill (approximately one gallon). An unknown piece of equipment was parked on the pavement, just east of the dirt, and sprayed hydraulic fluid on the soil and a parked tractor.
AIM Level	NA
AIM Exception	NA
Inspection Type	Other (describe) :
Inspection Type Other Description	Facility reported a spill from an unknown source.
Corrective Action Description	Roads and grounds personnel containerized approximately an inch of top soil that appeared to be stained. The tractor was also wiped off using absorbent pads. As a precautionary measure, sandbags were placed above the spill area and absorbent socks below the spill area. EPC followed up on 6/27/2022 after weekend rain events and there was no visible sheen.
Was the problem identified at an outfall that has associated SIDPs?	
SIDP's Affected	
SIDP Action Taken	
Does Corrective Action require modification of SWPPP?	N
Corrective Action Initiate Date	24-JUN-2022 09:00
Corrective Action Complete Date	24-JUN-2022 12:45
Corrective Action Expected Completion Date	
Days to Take Action	0
Days Open	0
Status Description	
Date EPA Notified of Intent to Exceed 45 Days	
Date EPA Notiefied of Intent to Exceed 90 Days	
Baseline Date	

MSGP-CAR REPORT

Corrective Action #	**2119**
FOD	IF
MSGP Facility Description	TA-60-0001 Heavy Equipment Yard
Inspection Date	18-JUL-2022 11:00
Date EPC Notified	18-JUL-2022 11:00
Specific Location	Small metal recycle bin on bay of east side of 60-1
Inspector Name	KNIGHT JACOB L
Person Identifying Condition	KNIGHT JACOB L
Report Status	A new corrective action
Finding Description	Control measures inadequate to meet non-numeric effluent limitations
Finding Other Description	
Outfall	NA
Problem Description	There was a small blue metal recycle bin on the outside bay area of the east side of 60-1 that had a tarp with holes in it.
AIM Level	NA
AIM Exception	NA
Inspection Type	Routine facility inspection
Inspection Type Other Description	
Corrective Action Description	New tarp was placed over small metal recycle bin.
Was the problem identified at an outfall that has associated SIDPs?	
SIDP's Affected	
SIDP Action Taken	
Does Corrective Action require modification of SWPPP?	N
Corrective Action Initiate Date	18-JUL-2022 11:00
Corrective Action Complete Date	18-JUL-2022 13:30
Corrective Action Expected Completion Date	
Days to Take Action	0
Days Open	0
Status Description	
Date EPA Notified of Intent to Exceed 45 Days	
Date EPA Notiefied of Intent to Exceed 90 Days	
Baseline Date	

MSGP-CAR REPORT

Corrective Action #	**2120**
FOD	IF
MSGP Facility Description	TA-60-0001 Heavy Equipment Yard
Inspection Date	18-JUL-2022 11:00
Date EPC Notified	18-JUL-2022 11:00
Specific Location	Check dams in drainage leading to Substantially Identical Discharge Point (SIDP) 025 west of 60-1.
Inspector Name	KNIGHT JACOB L
Person Identifying Condition	KNIGHT JACOB L
Report Status	A new corrective action
Finding Description	Control measures not properly operated or maintained
Finding Other Description	
Outfall	NA
Problem Description	4 rock check dams (10054, 10055, 10056, 10057) in the drainage west of SIDP 025 and 2 check dams (10012, 10058) south of SIDP 025 in the drainage path are filled with sediment and need repair/sediment removal. There is also some up gradient erosion leading into the check dam areas.
AIM Level	NA
AIM Exception	NA
Inspection Type	Routine facility inspection
Inspection Type Other Description	
Corrective Action Description	Remove sediment at check dams and fill in areas of erosion to the south as needed. Additional rip rap may be needed to rebuild check dams to functional condition. Deploy gravel bags as temporary measure for sediment controls. On morning of 7/20/22 gravel bags were added as temporary check dams down gradient of the areas in question. Met with Roads and Grounds to go over work and they will put in an emergency EXID. The emergency EX-ID was submitted on 7/22/2022 and the sediment was removed from the check dams along with any needed repairs completed on 7/23/2022.
Was the problem identified at an outfall that has associated SIDPs?	Y
SIDP's Affected	SIDP 025
SIDP Action Taken	Specific to storm water controls up gradient of SIDP 025
Does Corrective Action require modification of SWPPP?	N
Corrective Action Initiate Date	18-JUL-2022 11:30
Corrective Action Complete Date	23-JUL-2022 13:00
Corrective Action Expected Completion Date	01-AUG-2022 17:00
Days to Take Action	0
Days Open	5
Status Description	
Date EPA Notified of Intent to Exceed 45 Days	
Date EPA Notiefied of Intent to Exceed 90 Days	
Baseline Date	

MSGP-CAR REPORT

Corrective Action #	**2124**
FOD	IF
MSGP Facility Description	TA-60-0001 Heavy Equipment Yard
Inspection Date	20-JUL-2022 11:00
Date EPC Notified	20-JUL-2022 11:00
Specific Location	Outside (west) lower mechanic bay at the Heavy Equipment Yard
Inspector Name	KNIGHT JACOB L
Person Identifying Condition	KNIGHT JACOB L
Report Status	A new corrective action
Finding Description	Unauthorized release or discharge
Finding Other Description	
Outfall	NA
Problem Description	EPC-CP was notified of a diesel spill (approximately one quart) on the west side of TA-60-0001. Personnel were cleaning a 2022 CAT 450 Backhoe and moving it from the inside bay to the outside (west) when the fuel filter started leaking diesel. Diesel was spilled on asphalt and concrete.
AIM Level	NA
AIM Exception	NA
Inspection Type	Other (describe) :
Inspection Type Other Description	Spills reporting
Corrective Action Description	Personnel used absorbents and Mircoblaze to clean the spill. The equipment was secured and repaired.
Was the problem identified at an outfall that has associated SIDPs?	
SIDP's Affected	
SIDP Action Taken	
Does Corrective Action require modification of SWPPP?	N
Corrective Action Initiate Date	20-JUL-2022 11:00
Corrective Action Complete Date	20-JUL-2022 12:00
Corrective Action Expected Completion Date	
Days to Take Action	0
Days Open	0
Status Description	
Date EPA Notified of Intent to Exceed 45 Days	
Date EPA Notiefied of Intent to Exceed 90 Days	
Baseline Date	

MSGP-CAR REPORT

Corrective Action #	**2126**
FOD	IF
MSGP Facility Description	TA-60-0001 Heavy Equipment Yard
Inspection Date	02-AUG-2022 16:00
Date EPC Notified	02-AUG-2022 16:00
Specific Location	
Inspector Name	KNIGHT JACOB L
Person Identifying Condition	SENA CHRISTOPHER A
Report Status	A new corrective action
Finding Description	Unauthorized release or discharge
Finding Other Description	
Outfall	NA
Problem Description	On the west side of TA-60-0001 Heavy Equipment Shop personnel noticed a spill under a 2021 WANCO Portable Diesel Light Tower. It appears the diesel leak was from the fuel pump and had been ongoing for many days before it was discovered. The diesel tank has a capacity of 30 gallons and the tank was full and it was 3/4 full at discovery. Approx. 7.5 gallons, at most, leaked out.
AIM Level	NA
AIM Exception	NA
Inspection Type	Other (describe) :
Inspection Type Other Description	Personnel identified leak
Corrective Action Description	The light tower was moved to a secure location and Roads and Grounds personnel containerized the soil, and placed new soil.
Was the problem identified at an outfall that has associated SIDPs?	
SIDP's Affected	
SIDP Action Taken	
Does Corrective Action require modification of SWPPP?	N
Corrective Action Initiate Date	02-AUG-2022 16:00
Corrective Action Complete Date	03-AUG-2022 08:00
Corrective Action Expected Completion Date	
Days to Take Action	0
Days Open	1
Status Description	
Date EPA Notified of Intent to Exceed 45 Days	
Date EPA Notiefied of Intent to Exceed 90 Days	
Baseline Date	

MSGP-CAR REPORT

Corrective Action #	**2128**
FOD	IF
MSGP Facility Description	TA-60-0001 Heavy Equipment Yard
Inspection Date	09-AUG-2022 10:00
Date EPC Notified	09-AUG-2022 10:00
Specific Location	On the west side of TA-60-1 Heavy Equipment storage area on soil
Inspector Name	KNIGHT JACOB L
Person Identifying Condition	SENA CHRISTOPHER A
Report Status	A new corrective action
Finding Description	Unauthorized release or discharge
Finding Other Description	
Outfall	NA
Problem Description	EPC-CP was notified of a diesel spill (approximately 0.5 gallons) on the west side of TA-60-0001. Personnel noticed a spill under a John Deer 3039 R Tractor. It appears the leak was from the fuel filter. The tractor was moved to the east side of TA-60-0001 on concrete and had a drip pan placed under the fuel filter awaiting repair.
AIM Level	NA
AIM Exception	NA
Inspection Type	Other (describe) :
Inspection Type Other Description	personnel observation
Corrective Action Description	Roads and Grounds personnel obtained an emergency EXID and containerized the soil (5-30 gallon drums) and then placed clean back fill in the excavation.
Was the problem identified at an outfall that has associated SIDPs?	
SIDP's Affected	
SIDP Action Taken	
Does Corrective Action require modification of SWPPP?	N
Corrective Action Initiate Date	09-AUG-2022 10:30
Corrective Action Complete Date	09-AUG-2022 15:30
Corrective Action Expected Completion Date	
Days to Take Action	0
Days Open	0
Status Description	
Date EPA Notified of Intent to Exceed 45 Days	
Date EPA Notiefied of Intent to Exceed 90 Days	
Baseline Date	

MSGP-CAR REPORT

Corrective Action #	**2132**
FOD	IF
MSGP Facility Description	TA-60-0001 Heavy Equipment Yard
Inspection Date	19-AUG-2022 10:30
Date EPC Notified	19-AUG-2022 10:30
Specific Location	Check dams in drainage leading to Outfall 025 at the NW area of west side equipment staging area.
Inspector Name	KNIGHT JACOB L
Person Identifying Condition	KNIGHT JACOB L
Report Status	A new corrective action
Finding Description	Control measures not properly operated or maintained
Finding Other Description	
Outfall	NA
Problem Description	Due to recent heavy rains several of the check dams in the drainage along Maniac rd leading to outfall 025 along the NW perimeter of the heavy equipment upper staging yard need maintenance and sediment removal.
AIM Level	NA
AIM Exception	NA
Inspection Type	Routine facility inspection
Inspection Type Other Description	
Corrective Action Description	Additional rip rap is needed to ensure stormwater flows over the center of check dams. Sediment removal is needed. Temporary gravel bags were added immediately where needed until the check dams can be worked. Pending EXID for final completion. Work was completed on 9/1/22 - sediment at check dams were removed and additional rock was added to widen the check dams to ensure better functionality. Additional stabilization with compacted asphalt millings was provided where the final check dam was bypassed causing some erosion.
Was the problem identified at an outfall that has associated SIDPs?	N
SIDP's Affected	Specific to outfall 025
SIDP Action Taken	
Does Corrective Action require modification of SWPPP?	N
Corrective Action Initiate Date	19-AUG-2022 11:30
Corrective Action Complete Date	01-SEP-2022 15:00
Corrective Action Expected Completion Date	
Days to Take Action	0
Days Open	13
Status Description	
Date EPA Notified of Intent to Exceed 45 Days	
Date EPA Notiefied of Intent to Exceed 90 Days	
Baseline Date	

MSGP-CAR REPORT

Corrective Action #	**2133**
FOD	IF
MSGP Facility Description	TA-60-0001 Heavy Equipment Yard
Inspection Date	19-AUG-2022 10:30
Date EPC Notified	19-AUG-2022 10:30
Specific Location	In the main drainage channel between the upper and lower yards on the east side of TA-60-1
Inspector Name	KNIGHT JACOB L
Person Identifying Condition	KNIGHT JACOB L
Report Status	A new corrective action
Finding Description	Control measures not properly operated or maintained
Finding Other Description	
Outfall	NA
Problem Description	Due to recent heavy rains several of the MetalLox wattles that were installed just up gradient of the automated sampler 2201 and outfall 022 have been displaced and need to be re-installed.
AIM Level	NA
AIM Exception	NA
Inspection Type	Routine facility inspection
Inspection Type Other Description	
Corrective Action Description	Rearrange MetLox wattles back to functional condition. This was accomplished on 8/25/2022.
Was the problem identified at an outfall that has associated SIDPs?	Y
SIDP's Affected	None - specific to outfall 022
SIDP Action Taken	Specific to controls near outfall 022 - other SIDP 025 has been identified as having different controls that need maintenance.
Does Corrective Action require modification of SWPPP?	N
Corrective Action Initiate Date	19-AUG-2022 11:30
Corrective Action Complete Date	25-AUG-2022 13:00
Corrective Action Expected Completion Date	
Days to Take Action	0
Days Open	6
Status Description	
Date EPA Notified of Intent to Exceed 45 Days	
Date EPA Notiefied of Intent to Exceed 90 Days	
Baseline Date	

MSGP-CAR REPORT

Corrective Action #	**2134**
FOD	IF
MSGP Facility Description	TA-60-0001 Heavy Equipment Yard
Inspection Date	19-AUG-2022 10:30
Date EPC Notified	19-AUG-2022 10:30
Specific Location	
Inspector Name	KNIGHT JACOB L
Person Identifying Condition	KNIGHT JACOB L
Report Status	A new corrective action
Finding Description	Control measures inadequate to meet non-numeric effluent limitations
Finding Other Description	
Outfall	NA
Problem Description	Small metal recycle bin on the east side of TA-60-1 was uncovered and associated tarp near it has holes and needs to be replaced. Also there was some small pieces of metal on the ground that needed to be cleaned up.
AIM Level	NA
AIM Exception	NA
Inspection Type	Routine facility inspection
Inspection Type Other Description	
Corrective Action Description	Facility placed weighted tarps on all 3 small metal recycle bins and used a magnet to pick up small metal debris.
Was the problem identified at an outfall that has associated SIDPs?	N
SIDP's Affected	
SIDP Action Taken	
Does Corrective Action require modification of SWPPP?	N
Corrective Action Initiate Date	19-AUG-2022 11:30
Corrective Action Complete Date	19-AUG-2022 13:00
Corrective Action Expected Completion Date	
Days to Take Action	0
Days Open	0
Status Description	
Date EPA Notified of Intent to Exceed 45 Days	
Date EPA Notiefied of Intent to Exceed 90 Days	
Baseline Date	

MSGP-CAR REPORT

Corrective Action #	**2140**
FOD	IF
MSGP Facility Description	TA-60-0001 Heavy Equipment Yard
Inspection Date	06-SEP-2022 09:00
Date EPC Notified	06-SEP-2022 09:00
Specific Location	West side equipment staging area west of TA-60-0001
Inspector Name	KNIGHT JACOB L
Person Identifying Condition	KNIGHT JACOB L
Report Status	A new corrective action
Finding Description	Unauthorized release or discharge
Finding Other Description	
Outfall	NA
Problem Description	Approximately 1 gallon of hydraulic fluid leaked from a LANL auger truck onto asphalt. The truck was brought into the heavy equipment area on Friday (9/2/2022) with the report the equipment was leaking. Personnel were advised that the equipment only leaked when operated.
AIM Level	NA
AIM Exception	NA
Inspection Type	Other (describe) :
Inspection Type Other Description	Spill response
Corrective Action Description	The truck was moved to the east side of TA-60-0001 and a drip pan / pads were placed under the vehicle. Roads & Grounds used absorbents and Mircroblaze on the affected asphalt.
Was the problem identified at an outfall that has associated SIDPs?	
SIDP's Affected	
SIDP Action Taken	
Does Corrective Action require modification of SWPPP?	N
Corrective Action Initiate Date	06-SEP-2022 09:00
Corrective Action Complete Date	06-SEP-2022 10:00
Corrective Action Expected Completion Date	
Days to Take Action	0
Days Open	0
Status Description	
Date EPA Notified of Intent to Exceed 45 Days	
Date EPA Notiefied of Intent to Exceed 90 Days	
Baseline Date	

MSGP-CAR REPORT

Corrective Action #	**2148**
FOD	IF
MSGP Facility Description	TA-60-0001 Heavy Equipment Yard
Inspection Date	29-SEP-2022 11:15
Date EPC Notified	29-SEP-2022 11:15
Specific Location	Lower east yard at storm drain with gravel bags (outfall 023)
Inspector Name	KNIGHT JACOB L
Person Identifying Condition	KNIGHT JACOB L
Report Status	A new corrective action
Finding Description	Control measures inadequate to meet non-numeric effluent limitations
Finding Other Description	
Outfall	NA
Problem Description	There is a drop inlet (outfall 023) in the lower east yard at the heavy equipment shop with gravel bags in disrepair and sediment accumulation around them that needs to be cleaned up and removed.
AIM Level	NA
AIM Exception	NA
Inspection Type	Routine facility inspection
Inspection Type Other Description	
Corrective Action Description	Replace torn gravel bags and clean up the sediment that accumulated. This was accomplished on 10/4/22.
Was the problem identified at an outfall that has associated SIDPs?	
SIDP's Affected	
SIDP Action Taken	
Does Corrective Action require modification of SWPPP?	N
Corrective Action Initiate Date	29-SEP-2022 11:15
Corrective Action Complete Date	04-OCT-2022 09:30
Corrective Action Expected Completion Date	
Days to Take Action	0
Days Open	5
Status Description	
Date EPA Notified of Intent to Exceed 45 Days	
Date EPA Notiefied of Intent to Exceed 90 Days	
Baseline Date	

MSGP-CAR REPORT

Corrective Action #	**2149**
FOD	IF
MSGP Facility Description	TA-60-0001 Heavy Equipment Yard
Inspection Date	29-SEP-2022 11:15
Date EPC Notified	29-SEP-2022 11:15
Specific Location	East side bay at TA-60-1 Heavy equipment shops
Inspector Name	KNIGHT JACOB L
Person Identifying Condition	KNIGHT JACOB L
Report Status	A new corrective action
Finding Description	Unauthorized release or discharge
Finding Other Description	
Outfall	NA
Problem Description	A mechanic was performing maintenance on a LANL man lift outside one of the east bays at 60-1 when approximately 1/2 quart of hydraulic oil spilled on the concrete. Secondary containment was initially used to capture most of the oil but this was unexpected.
AIM Level	NA
AIM Exception	NA
Inspection Type	Routine facility inspection
Inspection Type Other Description	
Corrective Action Description	Clean up/absorb the oil and apply microblaze. This was completed 9/30/22.
Was the problem identified at an outfall that has associated SIDPs?	
SIDP's Affected	
SIDP Action Taken	
Does Corrective Action require modification of SWPPP?	N
Corrective Action Initiate Date	29-SEP-2022 11:15
Corrective Action Complete Date	30-SEP-2022 09:00
Corrective Action Expected Completion Date	
Days to Take Action	0
Days Open	1
Status Description	
Date EPA Notified of Intent to Exceed 45 Days	
Date EPA Notiefied of Intent to Exceed 90 Days	
Baseline Date	

MSGP-CAR REPORT

Corrective Action #	**2150**
FOD	IF
MSGP Facility Description	TA-60-0001 Heavy Equipment Yard
Inspection Date	29-SEP-2022 11:15
Date EPC Notified	29-SEP-2022 11:15
Specific Location	Northeast side bay at TA-60-1 heavy equipment shop
Inspector Name	KNIGHT JACOB L
Person Identifying Condition	KNIGHT JACOB L
Report Status	A new corrective action
Finding Description	Unauthorized release or discharge
Finding Other Description	
Outfall	NA
Problem Description	A Barko masticator was parked on the bay above the trench that drains to the oil water separator (OWS). The machine was sprayed down but greasy material was splashed over a ~30 st. ft area on the asphalt outside of the bay down gradient of the trench drain.
AIM Level	NA
AIM Exception	NA
Inspection Type	Routine facility inspection
Inspection Type Other Description	
Corrective Action Description	Clean up/sweep as much of the material as possible and apply micro-blaze. Make an attempt to keep sprayed material on the pad above the trench drain to the OWS, or use some type of splash pad or secondary containment. Clean up and application of micro-blaze was completed 9/30/22.
Was the problem identified at an outfall that has associated SIDPs?	
SIDP's Affected	
SIDP Action Taken	
Does Corrective Action require modification of SWPPP?	N
Corrective Action Initiate Date	29-SEP-2022 11:15
Corrective Action Complete Date	30-SEP-2022 09:00
Corrective Action Expected Completion Date	
Days to Take Action	0
Days Open	1
Status Description	
Date EPA Notified of Intent to Exceed 45 Days	
Date EPA Notiefied of Intent to Exceed 90 Days	
Baseline Date	

MSGP-CAR REPORT

Corrective Action #	**2154**
FOD	IF
MSGP Facility Description	TA-60-0001 Heavy Equipment Yard
Inspection Date	28-OCT-2022 10:00
Date EPC Notified	28-OCT-2022 10:00
Specific Location	Metal recycle bin in lower yard
Inspector Name	KNIGHT JACOB L
Person Identifying Condition	KNIGHT JACOB L
Report Status	A new corrective action
Finding Description	Control measures inadequate to meet non-numeric effluent limitations
Finding Other Description	
Outfall	NA
Problem Description	The metal recycle bin was covered with a tarp but the tarp is not quite the right size or it didn't function properly because there is some ponded water inside the bin.
AIM Level	NA
AIM Exception	NA
Inspection Type	Routine facility inspection
Inspection Type Other Description	
Corrective Action Description	Cover the metal recycle bin effectively so water does not accumulate inside.
Was the problem identified at an outfall that has associated SIDPs?	
SIDP's Affected	
SIDP Action Taken	
Does Corrective Action require modification of SWPPP?	N
Corrective Action Initiate Date	28-OCT-2022 10:00
Corrective Action Complete Date	31-OCT-2022 09:00
Corrective Action Expected Completion Date	
Days to Take Action	0
Days Open	3
Status Description	
Date EPA Notified of Intent to Exceed 45 Days	
Date EPA Notiefied of Intent to Exceed 90 Days	
Baseline Date	

MSGP-CAR REPORT

Corrective Action #	**2159**
FOD	IF
MSGP Facility Description	TA-60-0001 Heavy Equipment Yard
Inspection Date	08-NOV-2022 08:40
Date EPC Notified	08-NOV-2022 08:40
Specific Location	Designated re-fueling area at the SE corner of TA-60 HEY.
Inspector Name	SANDOVAL LEONARD F
Person Identifying Condition	SANDOVAL LEONARD F
Report Status	A new corrective action
Finding Description	Unauthorized release or discharge
Finding Other Description	
Outfall	NA
Problem Description	EPC-CP responded to TA-60-0001 for a hydraulic spill that occurred on asphalt. Upon arrival, a gasoline spill had also just occurred on asphalt. . Approximately one quart of hydraulic fluid spilled from a 2018 Freightliner Dump Truck (Gov¿t G820318V) leaked from a failed piece of equipment. Approximately one gallon of gasoline spilled from a 2016 International Fueling Truck (Gov't G820134S) from a failed fueling hose.
AIM Level	NA
AIM Exception	NA
Inspection Type	Routine facility inspection
Inspection Type Other Description	Spill notification and response by EPC-CP.
Corrective Action Description	The driver of the fueling truck noticed the hydraulic fluid spill and put absorbents under the truck. Roads & Grounds secured the leaking equipment, wiped the truck down before it was relocated in a bay at the shops, used absorbents, and applied Micro-blaze to the affected areas. Personnel at heavy equipment replaced the hose nozzle that failed during refueling on the gasoline spill. Roads & Grounds used absorbents and applied Micro-blaze to the affected areas.
Was the problem identified at an outfall that has associated SIDPs?	N
SIDP's Affected	
SIDP Action Taken	
Does Corrective Action require modification of SWPPP?	N
Corrective Action Initiate Date	08-NOV-2022 08:45
Corrective Action Complete Date	08-NOV-2022 09:45
Corrective Action Expected Completion Date	
Days to Take Action	0
Days Open	0
Status Description	
Date EPA Notified of Intent to Exceed 45 Days	
Date EPA Notiefied of Intent to Exceed 90 Days	
Baseline Date	

MSGP-CAR REPORT

Corrective Action #	**2164**
FOD	IF
MSGP Facility Description	TA-60-0001 Heavy Equipment Yard
Inspection Date	21-NOV-2022 11:00
Date EPC Notified	21-NOV-2022 11:00
Specific Location	Mobile refueling truck SE of TA-60-1
Inspector Name	KNIGHT JACOB L
Person Identifying Condition	KNIGHT JACOB L
Report Status	A new corrective action
Finding Description	Unauthorized release or discharge
Finding Other Description	
Outfall	NA
Problem Description	One of the refueling trucks (E304640) was leaking fuel from the kamvalok coupler and a nozzle
AIM Level	NA
AIM Exception	NA
Inspection Type	Routine facility inspection
Inspection Type Other Description	y and
Corrective Action Description	A spill pan and absorbents were placed under the leak and leaking pieces were wrapped. Micro blaze was applied. The leaks need to be repaired. The leaks were secured since discovery and final repairs were made by an off site vendor on 11/29/22
Was the problem identified at an outfall that has associated SIDPs?	
SIDP's Affected	
SIDP Action Taken	
Does Corrective Action require modification of SWPPP?	N
Corrective Action Initiate Date	21-NOV-2022 11:00
Corrective Action Complete Date	29-NOV-2022 13:00
Corrective Action Expected Completion Date	
Days to Take Action	0
Days Open	8
Status Description	
Date EPA Notified of Intent to Exceed 45 Days	
Date EPA Notiefied of Intent to Exceed 90 Days	
Baseline Date	

MSGP-CAR REPORT

Corrective Action #	**2189**
FOD	IF
MSGP Facility Description	TA-60-0001 Heavy Equipment Yard
Inspection Date	14-DEC-2022 13:15
Date EPC Notified	14-DEC-2022 13:15
Specific Location	West of TA-60-0001 by a roll up door.
Inspector Name	WHEELER HOLLY L
Person Identifying Condition	WHEELER HOLLY L
Report Status	A new corrective action
Finding Description	Control measures inadequate to meet non-numeric effluent limitations
Finding Other Description	
Outfall	NA
Problem Description	There is an oil stained differential stored on the west side of TA-60-0001 by the roll up door. It was not covered.
AIM Level	NA
AIM Exception	NA
Inspection Type	Routine facility inspection
Inspection Type Other Description	
Corrective Action Description	The piece of equipment was placed on the east side bay (drains to oil/water separator)with absorbent pads underneath.
Was the problem identified at an outfall that has associated SIDPs?	N
SIDP's Affected	N/A
SIDP Action Taken	N/A
Does Corrective Action require modification of SWPPP?	N
Corrective Action Initiate Date	14-DEC-2022 13:15
Corrective Action Complete Date	15-DEC-2022 10:30
Corrective Action Expected Completion Date	
Days to Take Action	0
Days Open	1
Status Description	N/A
Date EPA Notified of Intent to Exceed 45 Days	
Date EPA Notiefied of Intent to Exceed 90 Days	
Baseline Date	

MSGP-CAR REPORT

Corrective Action #	**2091**
FOD	IF
MSGP Facility Description	TA-60-0001 Heavy Equipment Yard
Inspection Date	14-DEC-2022 13:15
Date EPC Notified	14-DEC-2022 13:15
Specific Location	West central portion of the upper yard at TA-60-0001.
Inspector Name	WHEELER HOLLY L
Person Identifying Condition	WHEELER HOLLY L
Report Status	A new corrective action
Finding Description	Unauthorized release or discharge
Finding Other Description	
Outfall	NA
Problem Description	It appears that hydraulic oil is leaking from Toyota forklift #2 by the front tines onto asphalt.
AIM Level	NA
AIM Exception	NA
Inspection Type	Routine facility inspection
Inspection Type Other Description	
Corrective Action Description	Tines were raised and stained asphalt was cleaned with floorsorb then microblazed. Absorbet pads were placed under the affected area until the unit is salvaged.
Was the problem identified at an outfall that has associated SIDPs?	N
SIDP's Affected	N/A
SIDP Action Taken	N/A
Does Corrective Action require modification of SWPPP?	N
Corrective Action Initiate Date	14-DEC-2022 13:15
Corrective Action Complete Date	15-DEC-2022 10:45
Corrective Action Expected Completion Date	
Days to Take Action	0
Days Open	1
Status Description	
Date EPA Notified of Intent to Exceed 45 Days	
Date EPA Notiefied of Intent to Exceed 90 Days	
Baseline Date	

MSGP-CAR REPORT

Corrective Action #	**2205**
FOD	IF
MSGP Facility Description	TA-60-0001 Heavy Equipment Yard
Inspection Date	21-DEC-2022 12J00
Date EPC UotiLed	21-DEC-2022 12J00
SpeciLc Nocation	Nofiistics Tafii par(infi area at TA-60
Inspector Uame	wUIGHT)ACOh N
Person Identibyinfi Condition	wUIGHT)ACOh N
Keport Status	A neB corrective action
Findinfi Description	f nautgoriRed release or discgarfie
Findinfi Otger Description	
Ouz all	UA
Protflem Description	EPC-CP B as notiLed oban antibreeRe spill at tge TA-60 Nofiistics tafii par(infi areax Approfiimately one pint obantibreeRe lea(ed brom a Ford passenfier tfus onto aspgaltx
AIM Nevel	UA
AIM Efnception	UA
Inspection Type	Otger .descritfe4J
Inspection Type Otger Description	Otfservation
Corrective Action Description	Nofiistics personnel secured tge vegicle and tfroufigt it into tge sgop bor repairsxTge spill B as cleaned upx
4 as tge protflem identiLed at an ouz all tgat gas associated SIDPs5	
SIDP5s Akected	
SIDP Action Ta(en	
Does Corrective Action require modiLcation obS4 PPP5	U
Corrective Action Initiate Date	21-DEC-2022 12J1W
Corrective Action Complete Date	21-DEC-2022 16J00
Corrective Action Efnpected Completion Date	
Days to Ta(e Action	0
Days Open	0
Status Description	
Date EPA UotiLed obIntent to Efnceed ’ WDays	
Date EPA UotieLed obIntent to Efnceed 90 Days	
haseline Date	

MSGP-CAR REPORT

Corrective Action #	**2207**
FOD	IF
MSGP Facility Description	TA-60-0001 Heavy Equipment Yard
Inspection Date	25-JAN-2023 11:30
Date EPC Notified	25-JAN-2023 11:30
Specific Location	Lower east yard metal recycle bin.
Inspector Name	KNIGHT JACOB L
Person Identifying Condition	KNIGHT JACOB L
Report Status	A new corrective action
Finding Description	Control measures inadequate to meet non-numeric effluent limitations
Finding Other Description	
Outfall	NA
Problem Description	In the lower east yard the metal recycle bin had some small pieces of metal inside and the bin was uncovered with some evidence of precipitation.
AIM Level	NA
AIM Exception	NA
Inspection Type	Routine facility inspection
Inspection Type Other Description	
Corrective Action Description	Cover the metal recycle bin to prevent precipitation from coming into contact with the contents. This was accomplished with a proper tarp on 1/27/23.
Was the problem identified at an outfall that has associated SIDPs?	
SIDP's Affected	
SIDP Action Taken	
Does Corrective Action require modification of SWPPP?	N
Corrective Action Initiate Date	25-JAN-2023 11:30
Corrective Action Complete Date	27-JAN-2023 11:45
Corrective Action Expected Completion Date	
Days to Take Action	0
Days Open	2
Status Description	
Date EPA Notified of Intent to Exceed 45 Days	
Date EPA Notiefied of Intent to Exceed 90 Days	
Baseline Date	

MSGP-CAR REPORT

Corrective Action #	**2208**
FOD	IF
MSGP Facility Description	TA-60-0001 Heavy Equipment Yard
Inspection Date	21-FEB-2023 09:00
Date EPC Notified	21-FEB-2023 09:00
Specific Location	Heavy equipment storage area outside (west) of TA-60-0001
Inspector Name	KNIGHT JACOB L
Person Identifying Condition	KNIGHT JACOB L
Report Status	A new corrective action
Finding Description	Unauthorized release or discharge
Finding Other Description	
Outfall	NA
Problem Description	A spill from an unknown source of approximately 1 or 2 pints of oil was reported on the asphalt west of TA-60-0001. During the investigation it was noted that a LANL mobile generator was staged on a sloped area and dripping fuel onto soil up gradient of the paved area and both the oil and the fuel was commingling with with snow melt water. Approximately 2 or 3 gallons of fuel may have been released from the cabinet inside the generator where fuel was pooled under the engine.
AIM Level	NA
AIM Exception	NA
Inspection Type	Other (describe) :
Inspection Type Other Description	Spill response
Corrective Action Description	Roads and Grounds and EPC deployed absorbent materials. A Hazmat team also responded and applied more robust absorbent materials as the snow melt increased. The facility moved the snow pile from the area to decrease runoff. Roads and grounds also containerized a thin top layer of contaminated soil. The mobile generator was moved indoors to the shop after the fuel was absorbed inside the cabinet and was no longer leaking out fuel. The area was cordoned off where water was pooling and running with sheen and another evaluation will be conducted on 2/22/23 to determine if oil and fuel sheen containment to the site was functional and if controls need replacement (new precipitation is expected). Roads and grounds will clean up any further contaminated soil as conditions permit and emergency excavation permit is in place. On 2/22/23 HAZMAT evaluated their controls and EPC deployed additional absorbent controls and applied micro blaze. It was noted some runoff with sheen entered outfall 024. Roads and grounds containerized two 55 gal drums of contaminated soil and covered the soil area where fuel leaked with plastic. Site will be re-evaluated again 2/23/23. on 2/23/23 EPC-CP, HAZMAT, IRC, Road & Grounds, and WMC returned to evaluate the site. HAZMAT put up additional caution tape, replaced several absorbents, and cleaned up the area. Roads & Grounds will be back on site 2/24/23 at 10:00 am to containerize the additional soil from the spill area and HAZMAT will reevaluate. There was no sheen identified in the drainage below outfall 024, EPC did a thorough investigation. On 2/28/23 after a period of dry days additional micro blaze was applied on asphalt and additional soil containerized. Clean absorbent controls were left in place as a precaution.
Was the problem identified at an outfall that has associated SIDPs?	Y
SIDP's Affected	Outfall 025 only
SIDP Action Taken	Spill was contained to the extent practicable with numerous absorbent materials throughout the flow path and in the the outfall. Very little fuel sheen was observed in the outfall and it didn't appear to travel any further down stream in the drainage channel. Micro blaze was applied in areas where it could be applied.
Does Corrective Action require modification of SWPPP?	N
Corrective Action Initiate Date	21-FEB-2023 09:00

MSGP-CAR REPORT

Corrective Action Complete Date	28-FEB-2023 14:00
Corrective Action Expected Completion Date	
Days to Take Action	0
Days Open	7
Status Description	
Date EPA Notified of Intent to Exceed 45 Days	
Date EPA Notiefied of Intent to Exceed 90 Days	
Baseline Date	

MSGP-CAR REPORT

Corrective Action #	**2209**
FOD	IF
MSGP Facility Description	TA-60-0001 Heavy Equipment Yard
Inspection Date	23-FEB-2023 11:00
Date EPC Notified	23-FEB-2023 11:00
Specific Location	Recycle bins on the east side of TA-60-0001
Inspector Name	KNIGHT JACOB L
Person Identifying Condition	KNIGHT JACOB L
Report Status	A new corrective action
Finding Description	Control measures inadequate to meet non-numeric effluent limitations
Finding Other Description	
Outfall	NA
Problem Description	The metal recycle bin, cardboard bin, and tire bin all had open covers with contents exposed to precipitation (was very windy).
AIM Level	NA
AIM Exception	NA
Inspection Type	Routine facility inspection
Inspection Type Other Description	
Corrective Action Description	Cover bins to ensure no further precipitation enters the bins. The facility noted they are looking into ordering better covers as well. On 2/23/23 the facility replaced the plastic bin covers on the tire bin and cardboard recycle bin, and replaced a tarp on the metal recycle bin.
Was the problem identified at an outfall that has associated SIDPs?	
SIDP's Affected	
SIDP Action Taken	
Does Corrective Action require modification of SWPPP?	N
Corrective Action Initiate Date	23-FEB-2023 13:00
Corrective Action Complete Date	23-FEB-2023 15:30
Corrective Action Expected Completion Date	
Days to Take Action	0
Days Open	0
Status Description	
Date EPA Notified of Intent to Exceed 45 Days	
Date EPA Notiefied of Intent to Exceed 90 Days	
Baseline Date	

MSGP-CAR REPORT

Corrective Action #	**2212**
FOD	IF
MSGP Facility Description	TA-60-0001 Heavy Equipment Yard
Inspection Date	17-MAR-2023 12:10
Date EPC Notified	17-MAR-2023 12:10
Specific Location	Outfall 022 at the TA-60-1 Heavy Equipment Yard.
Inspector Name	WHEELER HOLLY L
Person Identifying Condition	WHEELER HOLLY L
Report Status	A new corrective action
Finding Description	Average benchmark value exceedance
Finding Other Description	
Outfall	022
Problem Description	The average concentration of four monitoring values for total recoverable Aluminum discharged from outfall 022 at the TA-60-1 Heavy Equipment Yard exceeds the benchmark value. This average was calculated from monitoring results associated with storm events occurring on 06/25/2022, 07/01/2022, 10/05/2022, and 03/02/2023 with individual analytical results of 1120 ug/L, 778 ug/L, 1700 ug/L and 1030 ug/L. The average was 1157 ug/L. The benchmark value is 1100 ug/L
AIM Level	2
AIM Exception	NA
Inspection Type	Benchmark monitoring
Inspection Type Other Description	
Corrective Action Description	Personnel shall evaluate potential pollutant sources of total recoverable Aluminum and implement additional controls to ensure discharge of this pollutant source in stormwater is minimized. As of 4/24/23 all corrective actions are completed. See further details in the notes below. There are no exposed sources of metal fabrication metal. Erosion controls were added in and around the channel that receives the most stormwater flow from the heavy equipment yard including: seeding/hydromulching, addition of TRM in the channel as needed, a new storwmater pond was installed and was stabilized with riprap and TRM, and additional Pig stormwater metal filter socks were added.
Was the problem identified at an outfall that has associated SIDPs?	Y
SIDP's Affected	Outfalls 022, 021 and possibly 023.
SIDP Action Taken	Since outfall 022 is associated with substantially identical discharge points (SIDPs) 021 and 023, which are in the same drainage channel, facility personnel must also assess the need for corrective action at these SIDPs and document how the corrective action was appropriate for all, document why the exceedance would not affect these discharge points, or document additional corrective action taken specific to these discharge points. On 3/17/23 EPC, FOD, and HEY personnel walked down the area and identified potential sources of aluminum exposed to precipitation by being placed at the edge of a covered canopy that was receiving drips of water and snow. The sources were removed so that they wouldn't be exposed any longer. The HEY also purchased more tarps to use on various pieces of equipment in the yard as needed. On 3/20/23 the DEP walked the area with a roads and gounds crew and identified a bare area above Outfall 22 that could benefit from stabilization and a small sediment retention feature. This area may be associated with sediment transport and aluminum is often associated with sediments. Roads and Grounds submitted an emergency EX-ID to begin this work. Outfalls 021 and 023 already have sediment retention features that limit sediment migration off site or are fully stabilized. Outfall 22 is up-gradient of the other outfalls and receives the most direct flow from the upper Heavy Equipment yard where most staging takes place, but is not related to metal fabrication. All metal

MSGP-CAR REPORT

	fab activities are done indoors and all metal used for metal fab activities are stored under canopy or in conex boxes. A rack with a canopy cover was being dismantled and the metal placed in a conex. Excavation for the stormwater feature began 3/23/23. The area is saturated and ponded some stormwater so it needs to dry out. Additional excavation was completed week of 3/27/23 but the area needed further drying out as well.
Does Corrective Action require modification of SWPPP?	Y
Corrective Action Initiate Date	17-MAR-2023 13:30
Corrective Action Complete Date	24-APR-2023 13:00
Corrective Action Expected Completion Date	
Days to Take Action	0
Days Open	38
Status Description	Due to the saturated soil excavation of a sediment retention pond is still ongoing past the 14 days so the soils can dry out further. Work will resume week of 4/3/23. As of 4/6/23 the pond was nearly completed and requires a bit more rock work. On 4/10/23 an additional walk down was completed with EPC-CP Water Quality and grades were checked for proper ponding and discharging at the new pond outlet. Recommendations were also made to line the bottom of the pond with additional rock and stabilize other areas further including additional TRM in the main channel where previous TRM had faded, and seeding with hydromulching. Additional Pig Stormwater metal filtering socks were added. This additional work began 4/11/14 and was completed 4/14/23. R&G will be back on site 4/21/23 to spray clean potable water on the rock in the new pond to address some of the dirt on the riprap. The rip rap was cleaned up to the extent practicable on 4/21/23. There are no metal fabrication activities conducted outdoors and all metal is stored under a canopy or in a conex box.
Date EPA Notified of Intent to Exceed 45 Days	
Date EPA Notiefied of Intent to Exceed 90 Days	
Baseline Date	

MSGP-CAR REPORT

Corrective Action #	**2218**
FOD	IF
MSGP Facility Description	TA-60-0001 Heavy Equipment Yard
Inspection Date	27-MAR-2023 14:00
Date EPC Notified	27-MAR-2023 14:00
Specific Location	Check dams at NW perimeter of facility
Inspector Name	KNIGHT JACOB L
Person Identifying Condition	KNIGHT JACOB L
Report Status	A new corrective action
Finding Description	Control measures not properly operated or maintained
Finding Other Description	
Outfall	NA
Problem Description	Check dams near Outfall 025 at the NW perimeter of the west side yard at TA-60-1 are in need of maintenance and sediment removal after winter snow removal operations and runoff conditions.
AIM Level	NA
AIM Exception	NA
Inspection Type	Routine facility inspection
Inspection Type Other Description	
Corrective Action Description	Clean out check dams and ensure proper stormwater flow over center of check dams. This was completed on 3/29/23.
Was the problem identified at an outfall that has associated SIDPs?	
SIDP's Affected	
SIDP Action Taken	
Does Corrective Action require modification of SWPPP?	N
Corrective Action Initiate Date	27-MAR-2023 14:00
Corrective Action Complete Date	29-MAR-2023 11:00
Corrective Action Expected Completion Date	
Days to Take Action	0
Days Open	2
Status Description	
Date EPA Notified of Intent to Exceed 45 Days	
Date EPA Notiefied of Intent to Exceed 90 Days	
Baseline Date	

MSGP-CAR REPORT

Corrective Action #	**2219**
FOD	IF
MSGP Facility Description	TA-60-0001 Heavy Equipment Yard
Inspection Date	27-MAR-2023 14:00
Date EPC Notified	27-MAR-2023 14:00
Specific Location	Drop inlet area near petro-barrier boxes on SE side of upper yard East of 60-1
Inspector Name	KNIGHT JACOB L
Person Identifying Condition	KNIGHT JACOB L
Report Status	A new corrective action
Finding Description	Control measures not properly operated or maintained
Finding Other Description	
Outfall	NA
Problem Description	The top hat filters of the drop inlet with petro barrier boxes above outfall 021 need to be cleaned out/maintained and the surrounding area cleaned of sediment. The surrounding asphalt needs cleaned up as well.
AIM Level	NA
AIM Exception	NA
Inspection Type	Routine facility inspection
Inspection Type Other Description	
Corrective Action Description	clean drop inlet filters or replace. Clean surrounding asphalt and remove sediments and debris. This was completed on 3/29/23
Was the problem identified at an outfall that has associated SIDPs?	
SIDP's Affected	
SIDP Action Taken	
Does Corrective Action require modification of SWPPP?	N
Corrective Action Initiate Date	27-MAR-2023 14:00
Corrective Action Complete Date	29-MAR-2023 11:00
Corrective Action Expected Completion Date	
Days to Take Action	0
Days Open	2
Status Description	
Date EPA Notified of Intent to Exceed 45 Days	
Date EPA Notiefied of Intent to Exceed 90 Days	
Baseline Date	

MSGP-CAR REPORT

Corrective Action #	**2222**
FOD	IF
MSGP Facility Description	TA-60-0001 Heavy Equipment Yard
Inspection Date	05-APR-2023 09:00
Date EPC Notified	05-APR-2023 09:00
Specific Location	On concrete bay outside NE corner of TA-60-0001 shops
Inspector Name	KNIGHT JACOB L
Person Identifying Condition	KNIGHT JACOB L
Report Status	A new corrective action
Finding Description	Unauthorized release or discharge
Finding Other Description	
Outfall	NA
Problem Description	Approximately two quarts of hydraulic oil leaked from the packer blade area in a 2020 Peterbilt Garbage Truck. A hydraulic line was repaired inside the shop and the truck was moved to the bay outside and tested. Some unseen residual oil left over from the malfunction spilled onto the concrete.
AIM Level	NA
AIM Exception	NA
Inspection Type	Other (describe) :
Inspection Type Other Description	spill reporting
Corrective Action Description	Shop personnel applied absorbents to the spill, cleaned it up and applied microblaze.
Was the problem identified at an outfall that has associated SIDPs?	
SIDP's Affected	
SIDP Action Taken	
Does Corrective Action require modification of SWPPP?	N
Corrective Action Initiate Date	05-APR-2023 09:00
Corrective Action Complete Date	05-APR-2023 15:45
Corrective Action Expected Completion Date	
Days to Take Action	0
Days Open	0
Status Description	
Date EPA Notified of Intent to Exceed 45 Days	
Date EPA Notiefied of Intent to Exceed 90 Days	
Baseline Date	

MSGP-CAR REPORT

Corrective Action #	**2227**
FOD	IF
MSGP Facility Description	TA-60-0001 Heavy Equipment Yard
Inspection Date	24-APR-2023 13:00
Date EPC Notified	24-APR-2023 13:00
Specific Location	Mobile refueling area
Inspector Name	KNIGHT JACOB L
Person Identifying Condition	KNIGHT JACOB L
Report Status	A new corrective action
Finding Description	Unauthorized release or discharge
Finding Other Description	
Outfall	NA
Problem Description	During mobile refueling approximately 1/2 cup of fuel spilled onto the asphalt. There were fuel mats adjacent to the fueling location that absorb fuel in the event of drips and overflows but they weren't placed under the nozzle during active fueling.
AIM Level	NA
AIM Exception	NA
Inspection Type	Routine facility inspection
Inspection Type Other Description	
Corrective Action Description	Fuel was absorbed and micro blaze applied. Fueling operator was instructed by the superintendent to fuel over the absorbent mats provided.
Was the problem identified at an outfall that has associated SIDPs?	
SIDP's Affected	
SIDP Action Taken	
Does Corrective Action require modification of SWPPP?	N
Corrective Action Initiate Date	24-APR-2023 13:00
Corrective Action Complete Date	24-APR-2023 13:45
Corrective Action Expected Completion Date	
Days to Take Action	0
Days Open	0
Status Description	
Date EPA Notified of Intent to Exceed 45 Days	
Date EPA Notiefied of Intent to Exceed 90 Days	
Baseline Date	

MSGP-CAR REPORT

Corrective Action #	**2228**
FOD	IF
MSGP Facility Description	TA-60-0001 Heavy Equipment Yard
Inspection Date	24-APR-2023 13:00
Date EPC Notified	24-APR-2023 13:00
Specific Location	Mobile refueling area
Inspector Name	KNIGHT JACOB L
Person Identifying Condition	KNIGHT JACOB L
Report Status	A new corrective action
Finding Description	Unauthorized release or discharge
Finding Other Description	
Outfall	NA
Problem Description	The fueling truck (E29904) has an active leak that is apparently leaking transmission fluid. Some fluid stained the asphalt under the truck.
AIM Level	NA
AIM Exception	NA
Inspection Type	Routine facility inspection
Inspection Type Other Description	
Corrective Action Description	Micro blaze was applied and a drip pan used. Truck is going in for repairs.
Was the problem identified at an outfall that has associated SIDPs?	
SIDP's Affected	
SIDP Action Taken	
Does Corrective Action require modification of SWPPP?	N
Corrective Action Initiate Date	24-APR-2023 13:00
Corrective Action Complete Date	24-APR-2023 14:30
Corrective Action Expected Completion Date	
Days to Take Action	0
Days Open	0
Status Description	
Date EPA Notified of Intent to Exceed 45 Days	
Date EPA Notiefied of Intent to Exceed 90 Days	
Baseline Date	

MSGP-CAR REPORT

Corrective Action #	**2213**
FOD	IF
MSGP Facility Description	TA-60-0001 Heavy Equipment Yard
Inspection Date	28-APR-2023 11:45
Date EPC Notified	28-APR-2023 11:45
Specific Location	Lower east yard at the TA-60-0001.
Inspector Name	WHEELER HOLLY L
Person Identifying Condition	WHEELER HOLLY L
Report Status	A new corrective action
Finding Description	Control measures inadequate to meet non-numeric effluent limitations
Finding Other Description	
Outfall	NA
Problem Description	At the TA-60-0001 Heavy Equipment Yard, within the east lower yard, there was a large roll-off bin containing metal that was not covered. Another smaller gray roll-off bin was present in the same general location but was not completely covered with a tarp. Snow melt was inside both roll-off bins. The MSGP does not allow dry weather discharges from roll-off bins.
AIM Level	NA
AIM Exception	NA
Inspection Type	Other (describe) :
Inspection Type Other Description	Evaluation of the facility during a precipitation event.
Corrective Action Description	Both roll of bins were fully covered with tarps. New stronger tarps were used on both. Proper roll off bin covers were ordered so that tarps no longer have to be used.
Was the problem identified at an outfall that has associated SIDPs?	N
SIDP's Affected	N/A
SIDP Action Taken	N/A
Does Corrective Action require modification of SWPPP?	N
Corrective Action Initiate Date	28-APR-2023 12:00
Corrective Action Complete Date	02-MAY-2023 14:00
Corrective Action Expected Completion Date	
Days to Take Action	0
Days Open	4
Status Description	N/A
Date EPA Notified of Intent to Exceed 45 Days	
Date EPA Notiefied of Intent to Exceed 90 Days	
Baseline Date	

MSGP-CAR REPORT

Corrective Action #	**2232**
FOD	IF
MSGP Facility Description	TA-60-0001 Heavy Equipment Yard
Inspection Date	28-APR-2023 11:45
Date EPC Notified	28-APR-2023 11:45
Specific Location	Lower east yard at TA-60-0001
Inspector Name	h HEELER HOLLY L
Person Identi.yinWCondition	h HEELER HOLLY L
Report Status	A new corrective action
FindinWDescription	Control measures inadequate to meet non-numeric ef uent limitations
FindinWOtger Description	
Ouffall	NA
Protflem Description	At tge TA-60-0001 Heavy Equipment Yard in tge lower east yardbtgere is a trailer witg metal stored on it tgat is not covered, In additionbin tge same W¢neral areabtgere are sgeets o. metal tgat need tge tarp replaced as it is ripped,
AIM Level	NA
AIM Effception	NA
Inspection Type	Otger xdescritfe(:
Inspection Type Otger Description	Facility inspection durinWa precipitation event,
Corrective Action Description	All tge metal was disposed o. tge in covered metal recycle tfins, Tge .acility is underW6inWa clean up e) ort,
h as tge protflem identified at an ouffall tgat gas associated SIDPsB	N
SIDP?s A) ected	N'A
SIDP Action Ta/en	N'A
Does Corrective Action require modification o. Sh PPPB	N
Corrective Action Initiate Date	28-APR-2023 12:00
Corrective Action Complete Date	02-MAY-2023 14:00
Corrective Action Effpected Completion Date	
Days to Ta/e Action	0
Days Open	4
Status Description	
Date EPA Notified o. Intent to Effceed 45 Days	
Date EPA Notiefied o. Intent to Effceed k0 Days	
9aseline Date	

MSGP-CAR REPORT

Corrective Action #	**2236**
FOD	IF
MSGP Facility Description	TA-60-0001 Heavy Equipment Yard
Inspection Date	18-MAY-2023 13:30
Date EPC Notified	18-MAY-2023 13:30
Specific Location	Lower east yard
Inspector Name	KNIGHT JACOB L
Person Identifying Condition	KNIGHT JACOB L
Report Status	A new corrective action
Finding Description	Control measures inadequate to meet non-numeric effluent limitations
Finding Other Description	
Outfall	NA
Problem Description	In the lower east yard additional waste bins were added temporarily to aid in ongoing clean up efforts. One was uncovered and it was raining. It was supposed to have been removed from the site earlier in the day but the MRF is backlogged.
AIM Level	NA
AIM Exception	NA
Inspection Type	Routine facility inspection
Inspection Type Other Description	
Corrective Action Description	The bin was covered same day and removed from the site on 5/22/23. It won't be returning to the site, additional bins are no longer needed.
Was the problem identified at an outfall that has associated SIDPs?	
SIDP's Affected	
SIDP Action Taken	
Does Corrective Action require modification of SWPPP?	N
Corrective Action Initiate Date	18-MAY-2023 13:30
Corrective Action Complete Date	22-MAY-2023 10:00
Corrective Action Expected Completion Date	
Days to Take Action	0
Days Open	4
Status Description	
Date EPA Notified of Intent to Exceed 45 Days	
Date EPA Notiefied of Intent to Exceed 90 Days	
Baseline Date	

MSGP-CAR REPORT

Corrective Action #	**2214**
FOD	IF
MSGP Facility Description	TA-60-0001 Heavy Equipment Yard
Inspection Date	09-JUN-2023 09:00
Date EPC Notified	09-JUN-2023 09:00
Specific Location	SE corner outside bldg 60-0001
Inspector Name	KNIGHT JACOB L
Person Identifying Condition	KNIGHT JACOB L
Report Status	A new corrective action
Finding Description	Unauthorized release or discharge
Finding Other Description	
Outfall	NA
Problem Description	EPC-CP responded to a used motor oil spill on concrete on the SE side of bldg. 60-0001 at the Heavy Equipment Shop (HES). Approximately 2 gallons of used oil was spilled during a transfer from inside the building to the used motor oil tank outside the building. The line was temporarily disconnected for placement of a transportainer. The spill stayed within the footprint of the transportainer just outside the building.
AIM Level	NA
AIM Exception	NA
Inspection Type	Other (describe) :
Inspection Type Other Description	Spill response
Corrective Action Description	Absorbents were placed around the perimeter of the transportainer. The transportainer was moved with a fork lift and the spill was cleaned up and micro blaze was applied.
Was the problem identified at an outfall that has associated SIDPs?	
SIDP's Affected	
SIDP Action Taken	
Does Corrective Action require modification of SWPPP?	N
Corrective Action Initiate Date	09-JUN-2023 09:00
Corrective Action Complete Date	09-JUN-2023 11:00
Corrective Action Expected Completion Date	
Days to Take Action	0
Days Open	0
Status Description	
Date EPA Notified of Intent to Exceed 45 Days	
Date EPA Notiefied of Intent to Exceed 90 Days	
Baseline Date	

MSGP-CAR REPORT

Corrective Action #	**2245**
FOD	IF
MSGP Facility Description	TA-60-0001 Heavy Equipment Yard
Inspection Date	20-JUL-2023 10:00
Date EPC Notified	20-JUL-2023 10:00
Specific Location	
Inspector Name	KNIGHT JACOB L
Person Identifying Condition	KNIGHT JACOB L
Report Status	A new corrective action
Finding Description	Control measures inadequate to meet non-numeric effluent limitations
Finding Other Description	
Outfall	NA
Problem Description	Some housekeeping/trash pickup is needed along the east perimeter of the lower east yard at TA-60-0001 Heavy Equipment Shop.
AIM Level	NA
AIM Exception	NA
Inspection Type	Routine facility inspection
Inspection Type Other Description	
Corrective Action Description	Pick up and dispose of trash. This was completed 7/21/23
Was the problem identified at an outfall that has associated SIDPs?	
SIDP's Affected	
SIDP Action Taken	
Does Corrective Action require modification of SWPPP?	N
Corrective Action Initiate Date	20-JUL-2023 10:00
Corrective Action Complete Date	21-JUL-2023 16:00
Corrective Action Expected Completion Date	
Days to Take Action	0
Days Open	1
Status Description	
Date EPA Notified of Intent to Exceed 45 Days	
Date EPA Notiefied of Intent to Exceed 90 Days	
Baseline Date	

MSGP-CAR REPORT

Corrective Action #	**2246**
FOD	IF
MSGP Facility Description	TA-60-0001 Heavy Equipment Yard
Inspection Date	20-JUL-2023 10:00
Date EPC Notified	20-JUL-2023 10:00
Specific Location	Gravel bags at drop inlet in lower east yard of Heavy Equipment Shop
Inspector Name	KNIGHT JACOB L
Person Identifying Condition	KNIGHT JACOB L
Report Status	A new corrective action
Finding Description	Control measures not properly operated or maintained
Finding Other Description	
Outfall	NA
Problem Description	There are several gravel bags in disrepair that need replacing at the drop inlet in the lower east yard.
AIM Level	NA
AIM Exception	NA
Inspection Type	Routine facility inspection
Inspection Type Other Description	
Corrective Action Description	Replace busted gravel bags with new ones. This was completed 7/27/23.
Was the problem identified at an outfall that has associated SIDPs?	
SIDP's Affected	
SIDP Action Taken	
Does Corrective Action require modification of SWPPP?	N
Corrective Action Initiate Date	20-JUL-2023 10:00
Corrective Action Complete Date	27-JUL-2023 11:00
Corrective Action Expected Completion Date	
Days to Take Action	0
Days Open	7
Status Description	
Date EPA Notified of Intent to Exceed 45 Days	
Date EPA Notiefied of Intent to Exceed 90 Days	
Baseline Date	

MSGP-CAR REPORT

Corrective Action #	**2265**
FOD	IF
MSGP Facility Description	TA-60-0001 Heavy Equipment Yard
Inspection Date	29-AUG-2023 12:30
Date EPC Notified	29-AUG-2023 12:30
Specific Location	Rock check dams in roadside drainage swale along Maniac Rd. at NW perimeter of heavy equipment yard facility
Inspector Name	KNIGHT JACOB L
Person Identifying Condition	KNIGHT JACOB L
Report Status	A new corrective action
Finding Description	Control measures inadequate to meet non-numeric effluent limitations
Finding Other Description	
Outfall	NA
Problem Description	There is sediment/base course accumulation in between the rock check dams along Maniac rd at the NW perimeter of the heavy equipment facility.
AIM Level	NA
AIM Exception	NA
Inspection Type	Routine facility inspection
Inspection Type Other Description	
Corrective Action Description	Remove accumulated sediment/base course at check dams. Fill in rills. This area could really benefit from a stabilization project but at the moment the sediment needs to be removed at the check dams to complete this corrective action. R&G completed this activity with a skid steer on 9/5/23.
Was the problem identified at an outfall that has associated SIDPs?	N
SIDP's Affected	
SIDP Action Taken	
Does Corrective Action require modification of SWPPP?	N
Corrective Action Initiate Date	29-AUG-2023 12:30
Corrective Action Complete Date	05-SEP-2023 14:00
Corrective Action Expected Completion Date	
Days to Take Action	0
Days Open	7
Status Description	
Date EPA Notified of Intent to Exceed 45 Days	
Date EPA Notiefied of Intent to Exceed 90 Days	
Baseline Date	

MSGP-CAR REPORT

Corrective Action #	**2266**
FOD	IF
MSGP Facility Description	TA-60-0001 Heavy Equipment Yard
Inspection Date	29-AUG-2023 13:00
Date EPC Notified	29-AUG-2023 13:00
Specific Location	Lower east yard of the heavy equipment TA-60-1 facility
Inspector Name	KNIGHT JACOB L
Person Identifying Condition	KNIGHT JACOB L
Report Status	A new corrective action
Finding Description	Unauthorized release or discharge
Finding Other Description	
Outfall	NA
Problem Description	Subcontracted HVAC project at TA-60-1 is staging equipment and material in the lower east yard. The project has a concrete washout pit with lumber and plastic and there is concrete outside of it on the dirt that needs to be cleaned up. The plastic is falling down as well.
AIM Level	NA
AIM Exception	NA
Inspection Type	Routine facility inspection
Inspection Type Other Description	
Corrective Action Description	Clean up the hardened concrete on the soil outside of the concrete washout pit and ensure the liner for the washout is functional if it will continue to be used. This was completed 8/30/23
Was the problem identified at an outfall that has associated SIDPs?	
SIDP's Affected	
SIDP Action Taken	
Does Corrective Action require modification of SWPPP?	N
Corrective Action Initiate Date	29-AUG-2023 13:00
Corrective Action Complete Date	30-AUG-2023 11:00
Corrective Action Expected Completion Date	
Days to Take Action	0
Days Open	1
Status Description	
Date EPA Notified of Intent to Exceed 45 Days	
Date EPA Notiefied of Intent to Exceed 90 Days	
Baseline Date	

MSGP-CAR REPORT

Corrective Action #	**2267**
FOD	IF
MSGP Facility Description	TA-60-0001 Heavy Equipment Yard
Inspection Date	29-AUG-2023 13:00
Date EPC Notified	29-AUG-2023 13:00
Specific Location	Lower east yard at TA-60-1 metal recycle bin
Inspector Name	KNIGHT JACOB L
Person Identifying Condition	KNIGHT JACOB L
Report Status	A new corrective action
Finding Description	Control measures inadequate to meet non-numeric effluent limitations
Finding Other Description	
Outfall	NA
Problem Description	Tarp covering the metal recycle dumpster bin has holes in it. The MSGP requires covers for waste bins in use to be effective in preventing precipitation from accumulating.
AIM Level	NA
AIM Exception	NA
Inspection Type	Routine facility inspection
Inspection Type Other Description	
Corrective Action Description	Replace the tarp. Have discussed having better more permanent covers for that bin with the facility. It proves challenging because the MRF delivers various sizes, but it's being looked into. Better tarps were ordered but in the meantime a temporary functional tarp was used until the new ones come in.
Was the problem identified at an outfall that has associated SIDPs?	
SIDP's Affected	
SIDP Action Taken	
Does Corrective Action require modification of SWPPP?	N
Corrective Action Initiate Date	29-AUG-2023 13:00
Corrective Action Complete Date	01-SEP-2023 10:00
Corrective Action Expected Completion Date	
Days to Take Action	0
Days Open	3
Status Description	
Date EPA Notified of Intent to Exceed 45 Days	
Date EPA Notiefied of Intent to Exceed 90 Days	
Baseline Date	

MSGP-CAR REPORT

Corrective Action #	**2269**
FOD	IF
MSGP Facility Description	TA-60-0001 Heavy Equipment Yard
Inspection Date	14-SEP-2023 14:00
Date EPC Notified	14-SEP-2023 14:00
Specific Location	North side of TA-60-1 access road.
Inspector Name	KNIGHT JACOB L
Person Identifying Condition	KNIGHT JACOB L
Report Status	A new corrective action
Finding Description	Control measures inadequate to meet non-numeric effluent limitations
Finding Other Description	
Outfall	NA
Problem Description	A subcontractor for an HVAC project is performing potholing in the access road on the north side of the 60-1 building. They have debris and dirt piles with no sediment controls. With recent rain sediment is migrating across the asphalt.
AIM Level	NA
AIM Exception	NA
Inspection Type	Routine facility inspection
Inspection Type Other Description	
Corrective Action Description	Migrating sediment was scraped back toward the dirt pile and Roads and Grounds brought gravel bags right away to place at the down gradient perimeter of the area.
Was the problem identified at an outfall that has associated SIDPs?	
SIDP's Affected	
SIDP Action Taken	
Does Corrective Action require modification of SWPPP?	N
Corrective Action Initiate Date	14-SEP-2023 14:25
Corrective Action Complete Date	15-SEP-2023 15:30
Corrective Action Expected Completion Date	
Days to Take Action	0
Days Open	1
Status Description	
Date EPA Notified of Intent to Exceed 45 Days	
Date EPA Notiefied of Intent to Exceed 90 Days	
Baseline Date	

MSGP-CAR REPORT

Corrective Action #	**2297**
FOD	IF
MSGP Facility Description	TA-60-0001 Heavy Equipment Yard
Inspection Date	09-NOV-2023 10:30
Date EPC Notified	09-NOV-2023 10:30
Specific Location	Mobile refueling area SE side of TA-60-1
Inspector Name	KNIGHT JACOB L
Person Identifying Condition	KNIGHT JACOB L
Report Status	A new corrective action
Finding Description	Control measures not properly operated or maintained
Finding Other Description	
Outfall	NA
Problem Description	Fuel Mat for spill management at the mobile refueling site is in disrepair and no longer functional. A functional spill prevention control measure is required for drips and spills from active fueling at the fueling area.
AIM Level	NA
AIM Exception	NA
Inspection Type	Routine facility inspection
Inspection Type Other Description	
Corrective Action Description	Replace Fuel Mat. If new product needs to be ordered use a temporary control such as oil absorbent pads or drip pan etc.. on 11-13-2023 EPC provided temporary spill controls for use at the refueling area
Was the problem identified at an outfall that has associated SIDPs?	
SIDP's Affected	
SIDP Action Taken	
Does Corrective Action require modification of SWPPP?	N
Corrective Action Initiate Date	09-NOV-2023 10:30
Corrective Action Complete Date	13-NOV-2023 10:00
Corrective Action Expected Completion Date	
Days to Take Action	0
Days Open	4
Status Description	
Date EPA Notified of Intent to Exceed 45 Days	
Date EPA Notiefied of Intent to Exceed 90 Days	
Baseline Date	

MSGP-CAR REPORT

Corrective Action #	**2298**
FOD	IF
MSGP Facility Description	TA-60-0001 Heavy Equipment Yard
Inspection Date	09-NOV-2023 10:30
Date EPC Notified	09-NOV-2023 10:30
Specific Location	Lower east yard on base course and east side of upper east yard on asphalt
Inspector Name	KNIGHT JACOB L
Person Identifying Condition	KNIGHT JACOB L
Report Status	A new corrective action
Finding Description	Unauthorized release or discharge
Finding Other Description	
Outfall	NA
Problem Description	Approximately 10 gallons of potassium acetate (road pre-treatment) was discharged from an unknown source and ran through base course in the lower east yard. When this product is not used as intended and is discharged in this manner it is a spill.
AIM Level	NA
AIM Exception	NA
Inspection Type	Routine facility inspection
Inspection Type Other Description	
Corrective Action Description	The spill area was cleaned up to the extent practicable. The product did not leave the facility area or enter a storm drain.
Was the problem identified at an outfall that has associated SIDPs?	
SIDP's Affected	
SIDP Action Taken	
Does Corrective Action require modification of SWPPP?	N
Corrective Action Initiate Date	09-NOV-2023 10:30
Corrective Action Complete Date	09-NOV-2023 13:30
Corrective Action Expected Completion Date	
Days to Take Action	0
Days Open	0
Status Description	
Date EPA Notified of Intent to Exceed 45 Days	
Date EPA Notiefied of Intent to Exceed 90 Days	
Baseline Date	

MSGP-CAR REPORT

Corrective Action #	**2299**
FOD	IF
MSGP Facility Description	TA-60-0001 Heavy Equipment Yard
Inspection Date	09-NOV-2023 10:30
Date EPC Notified	09-NOV-2023 10:30
Specific Location	
Inspector Name	KNIGHT JACOB L
Person Identifying Condition	KNIGHT JACOB L
Report Status	A new corrective action
Finding Description	Unauthorized release or discharge
Finding Other Description	
Outfall	NA
Problem Description	Outside the east bays of TA-60-1 there are several small oil spills that need cleaning and micro-blazing
AIM Level	NA
AIM Exception	NA
Inspection Type	Routine facility inspection
Inspection Type Other Description	
Corrective Action Description	Absorb what can be absorbed and apply micro blaze. This was completed 11/9/23.
Was the problem identified at an outfall that has associated SIDPs?	
SIDP's Affected	
SIDP Action Taken	
Does Corrective Action require modification of SWPPP?	N
Corrective Action Initiate Date	09-NOV-2023 10:30
Corrective Action Complete Date	09-NOV-2023 14:30
Corrective Action Expected Completion Date	
Days to Take Action	0
Days Open	0
Status Description	
Date EPA Notified of Intent to Exceed 45 Days	
Date EPA Notiefied of Intent to Exceed 90 Days	
Baseline Date	

MSGP-CAR REPORT

Corrective Action #	**2113**
FOD	IF
MSGP Facility Description	TA-60-0001 Heavy Equipment Yard
Inspection Date	11-DEC-2023 14:00
Date EPC Notified	11-DEC-2023 14:00
Specific Location	Lower east staging yard
Inspector Name	KNIGHT JACOB L
Person Identifying Condition	KNIGHT JACOB L
Report Status	A new corrective action
Finding Description	Unauthorized release or discharge
Finding Other Description	
Outfall	NA
Problem Description	A subcontractor for HVAC project at TA-60-1 is using an outdoor staging area in the lower east yard east of TA-60-1. They constructed a makeshift concrete washout with lumber and plastic that isn't functioning properly. They recently added more concrete and it couldn't be contained in the washout and spilled out.
AIM Level	NA
AIM Exception	NA
Inspection Type	Other (describe) :
Inspection Type Other Description	Spill response
Corrective Action Description	Clean up the concrete outside of the concrete washout. Also fix the concrete washout so it can contain all the concrete and any stormwater accumulation. This was accomplished on 12/12/23 at 1130am. The subcontractor is planning on removing all the concrete the week of Dec 18th.
Was the problem identified at an outfall that has associated SIDPs?	
SIDP's Affected	
SIDP Action Taken	
Does Corrective Action require modification of SWPPP?	N
Corrective Action Initiate Date	11-DEC-2023 14:00
Corrective Action Complete Date	12-DEC-2023 11:30
Corrective Action Expected Completion Date	
Days to Take Action	0
Days Open	1
Status Description	
Date EPA Notified of Intent to Exceed 45 Days	
Date EPA Notiefied of Intent to Exceed 90 Days	
Baseline Date	

MSGP-CAR REPORT

Corrective Action #	**2333**
FOD	IF
MSGP Facility Description	TA-60-0001 Heavy Equipment Yard
Inspection Date	12-DEC-2023 01:00
Date EPC Notified	12-DEC-2023 01:00
Specific Location	Taxi parking lot TA-60-0001
Inspector Name	KNIGHT JACOB L
Person Identifying Condition	KNIGHT JACOB L
Report Status	A new corrective action
Finding Description	Unauthorized release or discharge
Finding Other Description	
Outfall	NA
Problem Description	EPC-CP responded to the Taxi parking lot, west of TA-60-0004, for a transmission fluid release on asphalt. Approximately two cups of transmission fluid leaked from a Freight liner taxi bus while parked in the lot.
AIM Level	NA
AIM Exception	NA
Inspection Type	Other (describe) :
Inspection Type Other Description	Spill response
Corrective Action Description	Heavy equipment took the bus in for repairs and Roads and Grounds applied absorbents / micro-blaze to the affected areas.
Was the problem identified at an outfall that has associated SIDPs?	N
SIDP's Affected	
SIDP Action Taken	
Does Corrective Action require modification of SWPPP?	N
Corrective Action Initiate Date	12-DEC-2023 01:00
Corrective Action Complete Date	12-DEC-2023 14:00
Corrective Action Expected Completion Date	
Days to Take Action	0
Days Open	0
Status Description	
Date EPA Notified of Intent to Exceed 45 Days	
Date EPA Notiefied of Intent to Exceed 90 Days	
Baseline Date	

MSGP-CAR REPORT

Corrective Action #	**2334**
FOD	IF
MSGP Facility Description	TA-60-0001 Heavy Equipment Yard
Inspection Date	12-DEC-2023 10:00
Date EPC Notified	12-DEC-2023 10:00
Specific Location	West side of TA-60-0001 base course area
Inspector Name	KNIGHT JACOB L
Person Identifying Condition	KNIGHT JACOB L
Report Status	A new corrective action
Finding Description	Unauthorized release or discharge
Finding Other Description	
Outfall	NA
Problem Description	EPC-CP was notified of a diesel release on the west side of 60-0001 from a forklift. Approximately 1 gallon of diesel was spilled onto compacted soil/base course.
AIM Level	NA
AIM Exception	NA
Inspection Type	Other (describe) :
Inspection Type Other Description	Spill response
Corrective Action Description	HAZMAT responded and removed approximately 10 gallons of impacted soil. An additional 10 gallons of material was removed by Roads and Grounds personnel to complete the cleanup. The forklift was moved over to Heavy Equipment for inspection and repair.
Was the problem identified at an outfall that has associated SIDPs?	
SIDP's Affected	
SIDP Action Taken	
Does Corrective Action require modification of SWPPP?	N
Corrective Action Initiate Date	12-DEC-2023 10:00
Corrective Action Complete Date	12-DEC-2023 13:00
Corrective Action Expected Completion Date	
Days to Take Action	0
Days Open	0
Status Description	
Date EPA Notified of Intent to Exceed 45 Days	
Date EPA Notiefied of Intent to Exceed 90 Days	
Baseline Date	

MSGP-CAR REPORT

Corrective Action #	**2335**
FOD	IF
MSGP Facility Description	TA-60-0001 Heavy Equipment Yard
Inspection Date	18-DEC-2023 10:00
Date EPC Notified	18-DEC-2023 10:00
Specific Location	Various locations throughout the facility (east side of TA-60-0001 and by outfall 023).
Inspector Name	WHEELER HOLLY L
Person Identifying Condition	WHEELER HOLLY L
Report Status	A new corrective action
Finding Description	Control measures inadequate to meet non-numeric effluent limitations - Housekeeping
Finding Other Description	
Outfall	NA
Problem Description	There are boxes of product Tire Seal by the east middle dock out in the snow. Product should be protected to prevent degeneration. There is a gray trash can that contained trash and was not covered. It now contains snow. There are steel cutting edges stored by outfall 023 that should be covered or moved under a canopy.
AIM Level	NA
AIM Exception	NA
Inspection Type	Routine facility inspection
Inspection Type Other Description	
Corrective Action Description	Move boxes of product inside to protect them from storm events. Remove the trash from the gray trash can that is not covered. Also, remove the snow from it and keep it covered. Cover the steel cutting blades or mover them under a canopy. These actions were accomplished 12/19/23.
Was the problem identified at an outfall that has associated SIDPs?	Y
SIDP's Affected	Steel blades were stored by outfall 023 only.
SIDP Action Taken	Proposed corrective action should protect all SIDPs.
Does Corrective Action require modification of SWPPP?	N
Corrective Action Initiate Date	18-DEC-2023 10:00
Corrective Action Complete Date	19-DEC-2023 15:30
Corrective Action Expected Completion Date	
Days to Take Action	0
Days Open	1
Status Description	NA
Date EPA Notified of Intent to Exceed 45 Days	
Date EPA Notiefied of Intent to Exceed 90 Days	
Baseline Date	

MSGP-CAR REPORT

Corrective Action #	**2336**
FOD	IF
MSGP Facility Description	TA-60-0001 Heavy Equipment Yard
Inspection Date	18-DEC-2023 10:00
Date EPC Notified	18-DEC-2023 10:00
Specific Location	Lower east lot of TA-60-0001.
Inspector Name	WHEELER HOLLY L
Person Identifying Condition	WHEELER HOLLY L
Report Status	A new corrective action
Finding Description	Control measures inadequate to meet non-numeric effluent limitations - Exposed material
Finding Other Description	
Outfall	NA
Problem Description	The southern most roll-off bin containing metal for recycle is not completely covered. There is space where precipitation could enter the bin.
AIM Level	NA
AIM Exception	NA
Inspection Type	Routine facility inspection
Inspection Type Other Description	
Corrective Action Description	Completely cover the southern most roll-off bin containing metal for recycle.
Was the problem identified at an outfall that has associated SIDPs?	N
SIDP's Affected	NA
SIDP Action Taken	NA
Does Corrective Action require modification of SWPPP?	N
Corrective Action Initiate Date	18-DEC-2023 10:00
Corrective Action Complete Date	20-DEC-2023 10:00
Corrective Action Expected Completion Date	
Days to Take Action	0
Days Open	2
Status Description	NA
Date EPA Notified of Intent to Exceed 45 Days	
Date EPA Notiefied of Intent to Exceed 90 Days	
Baseline Date	

MSGP-CAR REPORT

Corrective Action #	**2337**
FOD	IF
MSGP Facility Description	TA-60-0001 Heavy Equipment Yard
Inspection Date	18-DEC-2023 10:00
Date EPC Notified	18-DEC-2023 10:00
Specific Location	TA-60-0001, lower east lot on the south side.
Inspector Name	WHEELER HOLLY L
Person Identifying Condition	WHEELER HOLLY L
Report Status	A new corrective action
Finding Description	Control measures inadequate to meet non-numeric effluent limitations - Exposed material
Finding Other Description	
Outfall	NA
Problem Description	Four pieces of old equipment including a concrete cutter, a Mega Arc Contractor, a Target Econoline II and a Miller Big 20G constant current DC Welding Generator appear to be abandoned in the lower east yard on the south side. All have liquids (fuel, oil and possibly ethylene glycol) present in them.
AIM Level	NA
AIM Exception	NA
Inspection Type	Routine facility inspection
Inspection Type Other Description	
Corrective Action Description	The MSGP requires fluids be drained from equipment and vehicles that will be decommissioned, and, for any equipment and vehicles that will remain unused for extended periods of time. The four pieces of equipment appear to have been stored outside with liquids present (fuel and oil) for an extended period of time. Drain all fluids from this equipment. On 12/19/2023 the equipment was brought by forklift to the concrete pad at the NE corner of the building. This area drains to an oil water separator. On 12/20/23 all fluids were drained from the equipment. The equipment will be properly disposed of or salvaged.
Was the problem identified at an outfall that has associated SIDPs?	N
SIDP's Affected	NA
SIDP Action Taken	NA
Does Corrective Action require modification of SWPPP?	N
Corrective Action Initiate Date	18-DEC-2023 10:00
Corrective Action Complete Date	20-DEC-2023 14:30
Corrective Action Expected Completion Date	
Days to Take Action	0
Days Open	2
Status Description	
Date EPA Notified of Intent to Exceed 45 Days	
Date EPA Notiefied of Intent to Exceed 90 Days	
Baseline Date	

MSGP-CAR REPORT

Corrective Action #	**2338**
FOD	IF
MSGP Facility Description	TA-60-0001 Heavy Equipment Yard
Inspection Date	18-DEC-2023 10:00
Date EPC Notified	18-DEC-2023 10:00
Specific Location	Within the Champ HVAC Project boundary in the lower east yard of TA-60-0001.
Inspector Name	WHEELER HOLLY L
Person Identifying Condition	WHEELER HOLLY L
Report Status	A new corrective action
Finding Description	Control measures inadequate to meet non-numeric effluent limitations - Exposed material
Finding Other Description	
Outfall	NA
Problem Description	Galvanized sheet metal duct waste as part of the Champ HVAC Project is being stored on the ground uncovered next to a covered roll-off bin.
AIM Level	NA
AIM Exception	NA
Inspection Type	Routine facility inspection
Inspection Type Other Description	
Corrective Action Description	The sheet metal scrap was removed and taken off site. It is no longer needed, the project is wrapping up.
Was the problem identified at an outfall that has associated SIDPs?	N
SIDP's Affected	NA
SIDP Action Taken	NA
Does Corrective Action require modification of SWPPP?	N
Corrective Action Initiate Date	18-DEC-2023 10:00
Corrective Action Complete Date	19-DEC-2023 14:30
Corrective Action Expected Completion Date	
Days to Take Action	0
Days Open	1
Status Description	
Date EPA Notified of Intent to Exceed 45 Days	
Date EPA Notiefied of Intent to Exceed 90 Days	
Baseline Date	

MSGP-CAR REPORT

Corrective Action #	**2339**
FOD	IF
MSGP Facility Description	TA-60-0001 Heavy Equipment Yard
Inspection Date	18-DEC-2023 10:00
Date EPC Notified	18-DEC-2023 10:00
Specific Location	Champ HVAC Project site in the lower east yard of TA-60-0001.
Inspector Name	WHEELER HOLLY L
Person Identifying Condition	WHEELER HOLLY L
Report Status	A new corrective action
Finding Description	Control measures inadequate to meet non-numeric effluent limitations - Exposed material
Finding Other Description	
Outfall	NA
Problem Description	There is a concrete washout area for the CHAMP HVAC project that is not covered and is now covered with snow. There is not enough free board to prevent off-site migration of pollutants from this washout area.
AIM Level	NA
AIM Exception	NA
Inspection Type	Routine facility inspection
Inspection Type Other Description	
Corrective Action Description	The entire concrete washout area was removed and hauled off as waste.
Was the problem identified at an outfall that has associated SIDPs?	N
SIDP's Affected	NA
SIDP Action Taken	NA
Does Corrective Action require modification of SWPPP?	N
Corrective Action Initiate Date	18-DEC-2023 10:00
Corrective Action Complete Date	19-DEC-2023 15:00
Corrective Action Expected Completion Date	
Days to Take Action	0
Days Open	1
Status Description	
Date EPA Notified of Intent to Exceed 45 Days	
Date EPA Notiefied of Intent to Exceed 90 Days	
Baseline Date	

MSGP-CAR REPORT

Corrective Action #	**2354**
FOD	IF
MSGP Facility Description	TA-60-0001 Heavy Equipment Yard
Inspection Date	24-JAN-2024 13:30
Date EPC Notified	24-JAN-2024 13:30
Specific Location	West-side of TA-60-0001 (parking area outside main building entrance)
Inspector Name	LUTZ TIMOTHY J
Person Identifying Condition	LUTZ TIMOTHY J
Report Status	A new corrective action
Finding Description	Unauthorized release or discharge
Parameter	
Outfall	NA
Problem Description	January 24, 2024, at approximately 1:30PM, small oil release (approximately 1 cup) was discovered on west side of TA-60-0001 (parking area outside main building entrance). Vehicle was no longer present at time of discovery.
AIM Level	NA
AIM Exception	NA
Inspection Type	Routine facility inspection
Inspection Type Other Description	
Corrective Action Description	Liquid oil was cleaned up using absorbent pad then areas were micro-blazed.
Was the problem identified at an outfall that has associated SIDPs?	
SIDP's Affected	
SIDP Action Taken	
Does Corrective Action require modification of SWPPP?	N
Corrective Action Initiate Date	24-JAN-2024 13:30
Corrective Action Complete Date	24-JAN-2024 14:00
Corrective Action Expected Completion Date	
Days to Take Action	0
Days Open	0
Status Description	
Date EPA Notified of Intent to Exceed 45 Days	
Date EPA Notified of Intent to Exceed 90 Days	
Baseline Date	

MSGP-CAR REPORT

Corrective Action #	**2355**
FOD	IF
MSGP Facility Description	TA-60-0001 Heavy Equipment Yard
Inspection Date	24-JAN-2024 14:00
Date EPC Notified	24-JAN-2024 14:00
Specific Location	TA-60-0001, south-east corner of upper yard
Inspector Name	LUTZ TIMOTHY J
Person Identifying Condition	LUTZ TIMOTHY J
Report Status	A new corrective action
Finding Description	Control measures not properly operated or maintained
Parameter	
Outfall	NA
Problem Description	Accumulated trash and pieces of cardboard in corner of yard from clearing snow. Also, boxes marked "Commercial Grade Truck Equipment" are deteriorated and falling apart.
AIM Level	NA
AIM Exception	NA
Inspection Type	Routine facility inspection
Inspection Type Other Description	
Corrective Action Description	Clean debris from snow pile. Remove cardboard boxes and locate equipment to different location. 1/31/2024. Cardboard boxes and equipment were removed from area. Some debris has been removed from snow pile. More debris will need to be removed as snow pile melts. 2/6/2024. Debris removed best it can as of this date. May be more as snow pile melts.
Was the problem identified at an outfall that has associated SIDPs?	
SIDP's Affected	
SIDP Action Taken	
Does Corrective Action require modification of SWPPP?	N
Corrective Action Initiate Date	24-JAN-2024 15:00
Corrective Action Complete Date	06-FEB-2024 11:00
Corrective Action Expected Completion Date	07-FEB-2024 16:00
Days to Take Action	0
Days Open	13
Status Description	
Date EPA Notified of Intent to Exceed 45 Days	
Date EPA Notified of Intent to Exceed 90 Days	
Baseline Date	

MSGP-CAR REPORT

Corrective Action #	**2357**
FOD	IF
MSGP Facility Description	TA-60-0001 Heavy Equipment Yard
Inspection Date	21-FEB-2024 09:00
Date EPC Notified	21-FEB-2024 09:00
Specific Location	Outfall 022.
Inspector Name	WHEELER HOLLY L
Person Identifying Condition	WHEELER HOLLY L
Report Status	A new corrective action
Finding Description	Average benchmark value exceedance
Parameter	Aluminum, total recoverable
Outfall	022
Problem Description	The average concentration of total recoverable Aluminum discharged from outfall 022 at TA-60-0001 Heavy Equipment Yard was mathematically certain to exceed the benchmark value. This average was calculated from monitoring results associated with storm events occurring on 05/15/2023, 08/08/2023 and 02/02/2024 and individual analytical results of 1,120 ug/L, 1,580 ug/L, and 3,360 ug/L. The average was 1,515 ug/L. The benchmark value is 1,100 ug/L.
AIM Level	3
AIM Exception	NA
Inspection Type	Benchmark monitoring
Inspection Type Other Description	
Corrective Action Description	Personnel shall evaluate potential pollutant sources of total recoverable Aluminum and implement additional controls to ensure discharge of this pollutant source in stormwater is minimized. The facility must install structural source controls, and/or treatment controls. These source controls should be more rigorous than the pollution prevention/good housekeeping-type stormwater control measures implemented under AIM Level 2. Selected controls must have pollutant removal efficiencies that are sufficient to bring exceedances below the benchmark threshold. On Feb 22 EPC-CP evaluated the site for potential sources. This Industrial facility is covered by MSGP under two sectors, sector P and sector AA. It's been noted that although there is a lot of exposed equipment and material related to sector P, any metals associated with metal fabrication are in enclosed structures and any metal work activity on vehicles are conducted indoors. In addition to preventing exposure of metal fab. activities and materials to precip., and as part of the AIM level 2 response, areas of the site were further stabilized and additional controls were implemented, such as a small sediment retention stormwater pond. In response to AIM Level 3 the EPC MSGP program has consulted with a Subject Matter Expert on Aluminum on several occasions and discussions about AIM Level 3 exceptions within the MSGP are in progress, and appear attainable. At the same time the MSGP program is looking into structural controls and treatment options and has met with IF FOD and Logistics Division management. The MSGP Program lead has also met with stormwater Industry Professionals on several occasions to receive guidance and quotes on recommended treatment options, which are being pursued and initiated. Additional AIM Level 3 response time is needed due to the complexity of the drainage and amount of outfalls at the site. On 6/5/2024 EPC-CP MSGP personnel met with EPA region 6 in Dallas for consultation on the complex situation at the Heavy Equipment Yard being covered under two industrial sectors. EPC also asked for guidance on submitting a natural background exception.

MSGP-CAR REPORT

	On 6/11/2024 After several consultations with vendors stormwater controls were ordered from a stormwater company for installation at all the outfalls at the Heavy Equipment Yard. Additionally after assessing the site it was noted that outfall 024 (asphalt rundown) was in poor condition and in need of a big repair/replacement. After walking the site down and completing additional meetings with IF FOD a design was submitted for construction of a concrete rundown which will be a great structural improvement to the facility. This will also allow installation of stormwater controls at the permitted outfall to function more effectively. On 8/29/24 the last of the Heavy Metal Filter Dikes with Biochar were installed throughout the facility including the main channel where monitored outfall 022 resides. See the updated SWPPP site plan. On 9/26/24 at SIDP 023 a proprietary drop inlet protection filter control along with filter socks was installed. On 1010/24 at SIDP 024 an older eroding asphalt rundown was replaced with the concrete rundown with new curbing and built in energy dissipating/silt capturing controls. Rip rap was installed as well at either side of the rundown and along the curbing where excavation was performed.
Was the problem identified at an outfall that has associated SIDPs?	Y
SIDP's Affected	022, 021 and 023.
SIDP Action Taken	Control measures must be installed at all SIDPS otherwise monitoring will be required at all SIDPS.
Does Corrective Action require modification of SWPPP?	Y
Corrective Action Initiate Date	22-FEB-2024 10:00
Corrective Action Complete Date	10-OCT-2024 12:25
Corrective Action Expected Completion Date	
Days to Take Action	1
Days Open	232
Status Description	See AIM level 3 comments in corrective action description.
Date EPA Notified of Intent to Exceed 45 Days	
Date EPA Notified of Intent to Exceed 90 Days	
Baseline Date	

MSGP-CAR REPORT

Corrective Action #	**2363**
FOD	IF
MSGP Facility Description	TA-60-0001 Heavy Equipment Yard
Inspection Date	22-FEB-2024 10:00
Date EPC Notified	22-FEB-2024 10:00
Specific Location	
Inspector Name	LUTZ TIMOTHY J
Person Identifying Condition	LUTZ TIMOTHY J
Report Status	A new corrective action
Finding Description	Control measures inadequate to meet non-numeric effluent limitations - Housekeeping
Parameter	NA
Outfall	NA
Problem Description	Multiple housekeeping issues in upper yard area. Kitty litter used to absorb spill left in place and not swept/cleaned up; metal bollards, concrete, window screen, and metal sign on ground near transformer; plastic and cardboard on ground in various places throughout area.
AIM Level	NA
AIM Exception	NA
Inspection Type	Routine facility inspection
Inspection Type Other Description	
Corrective Action Description	Items will be removed and disposed of properly. Personnel will walk grounds and pick up trash/debris.
Was the problem identified at an outfall that has associated SIDPs?	
SIDP's Affected	
SIDP Action Taken	
Does Corrective Action require modification of SWPPP?	N
Corrective Action Initiate Date	22-FEB-2024 12:00
Corrective Action Complete Date	23-FEB-2024 16:00
Corrective Action Expected Completion Date	07-MAR-2024 16:00
Days to Take Action	0
Days Open	1
Status Description	
Date EPA Notified of Intent to Exceed 45 Days	
Date EPA Notified of Intent to Exceed 90 Days	
Baseline Date	

MSGP-CAR REPORT

Corrective Action #	**2364**
FOD	IF
MSGP Facility Description	TA-60-0001 Heavy Equipment Yard
Inspection Date	22-FEB-2024 10:00
Date EPC Notified	22-FEB-2024 10:00
Specific Location	TA-60-0001 Upper Yard
Inspector Name	LUTZ TIMOTHY J
Person Identifying Condition	LUTZ TIMOTHY J
Report Status	A new corrective action
Finding Description	Control measures inadequate to meet non-numeric effluent limitations - Exposed material
Parameter	NA
Outfall	NA
Problem Description	Equipment stored outside exposed to storm water. Automatic truck tarps and lights/sirens were stored outside in degraded cardboard boxes and exposed to storm water. 2/27/24 update: some items moved to inside storage. Creating room for rest. Plan is to have all moved by 3/1/2024.
AIM Level	NA
AIM Exception	NA
Inspection Type	Routine facility inspection
Inspection Type Other Description	
Corrective Action Description	Equipment will be moved into a covered storage area.
Was the problem identified at an outfall that has associated SIDPs?	
SIDP's Affected	
SIDP Action Taken	
Does Corrective Action require modification of SWPPP?	N
Corrective Action Initiate Date	22-FEB-2024 12:00
Corrective Action Complete Date	05-MAR-2024 16:00
Corrective Action Expected Completion Date	07-MAR-2024 12:00
Days to Take Action	0
Days Open	12
Status Description	
Date EPA Notified of Intent to Exceed 45 Days	
Date EPA Notified of Intent to Exceed 90 Days	
Baseline Date	

MSGP-CAR REPORT

Corrective Action #	**2365**
FOD	IF
MSGP Facility Description	TA-60-0001 Heavy Equipment Yard
Inspection Date	22-FEB-2024 10:00
Date EPC Notified	22-FEB-2024 10:00
Specific Location	Ta-60-0001 Upper Yard
Inspector Name	LUTZ TIMOTHY J
Person Identifying Condition	LUTZ TIMOTHY J
Report Status	A new corrective action
Finding Description	Control measures inadequate to meet non-numeric effluent limitations - Exposed material
Parameter	NA
Outfall	NA
Problem Description	Aluminum brackets belonging to CHAMP HVAC project were stored outside, uncovered, and exposed to storm water.
AIM Level	NA
AIM Exception	NA
Inspection Type	Routine facility inspection
Inspection Type Other Description	
Corrective Action Description	Brackets will be removed from site or stored in a covered area. Items removed 2/23/24.
Was the problem identified at an outfall that has associated SIDPs?	
SIDP's Affected	
SIDP Action Taken	
Does Corrective Action require modification of SWPPP?	N
Corrective Action Initiate Date	22-FEB-2024 12:00
Corrective Action Complete Date	23-FEB-2024 15:00
Corrective Action Expected Completion Date	07-MAR-2024 12:00
Days to Take Action	0
Days Open	1
Status Description	
Date EPA Notified of Intent to Exceed 45 Days	
Date EPA Notified of Intent to Exceed 90 Days	
Baseline Date	

MSGP-CAR REPORT

Corrective Action #	**2366**
FOD	IF
MSGP Facility Description	TA-60-0001 Heavy Equipment Yard
Inspection Date	22-FEB-2024 10:00
Date EPC Notified	22-FEB-2024 10:00
Specific Location	TA-60-0001 Upper YardZStorm J ater detection pond near structure TA-60-0f 14Z
Inspector Name	LUTR TIMOTHY w
Person Identiff9linx Condition	LUTR TIMOTHY w
tfeport Status	A neJ corrective action
Findinx Description	Control measures inadequate to meet non-numeric eb uent limitations - House. eepinx
Parameter	NA
Ouk all	NA
Prohlem Description	Tras/ in storm J ater detention pondZ
AIM Level	NA
AIM E7ception	NA
Inspection Type	tfoutine ffacility inspection
Inspection Type Ot/er Description	
Corrective Action Description	tfemove tras/ ffbm detention pondZItems removed 272f 72024Z
3 as t/e prohlem identified at an ouk all t/at /as associated SIDPs3	
SIDPWA? ected	
SIDP Action Ta. en	
Does Corrective Action require modification offS3 PPP3	N
Corrective Action Initiate Date	22-FEB-2024 12:00
Corrective Action Complete Date	2f -FEB-2024 16:00
Corrective Action E7pected Completion Date	0' -MAtf-2024 12:00
Days to Ta. e Action	0
Days Open	1
Status Description	
Date EPA Notified offIntent to E7ceed 45 Days	
Date EPA Notified offIntent to E7ceed 90 Days	
Baseline Date	

MSGP-CAR REPORT

Corrective Action #	**2367**
FOD	IF
MSGP Facility Description	TA-60-0001 Heavy Equipment Yard
Inspection Date	22-FEB-2024 12:00
Date EPC Notified	22-FEB-2024 12:00
Specific Location	TA-60-0001 Lower Yard
Inspector Name	LUTZ TIMOTHY J
Person Identifying Condition	LUTZ TIMOTHY J
Report Status	A new corrective action
Finding Description	Control measures not properly operated or maintained
Parameter	NA
Outfall	NA
Problem Description	Holes are present in tarps covering two roll-offs allowing storm water to contact material.
AIM Level	NA
AIM Exception	NA
Inspection Type	Routine facility inspection
Inspection Type Other Description	
Corrective Action Description	Replace tarps. 2/27/2024 update: tarps not replaced. Facility personnel say will be completed 2/28/24 if tarps in stock, by 3/1/24 if tarps need to be ordered.
Was the problem identified at an outfall that has associated SIDPs?	
SIDP's Affected	
SIDP Action Taken	
Does Corrective Action require modification of SWPPP?	N
Corrective Action Initiate Date	22-FEB-2024 12:00
Corrective Action Complete Date	05-MAR-2024 16:00
Corrective Action Expected Completion Date	07-MAR-2024 12:00
Days to Take Action	0
Days Open	12
Status Description	
Date EPA Notified of Intent to Exceed 45 Days	
Date EPA Notified of Intent to Exceed 90 Days	
Baseline Date	

MSGP-CAR REPORT

Corrective Action #	**2368**
FOD	IF
MSGP Facility Description	TA-60-0001 Heavy Equipment Yard
Inspection Date	22-FEB-2024 10:00
Date EPC Notified	22-FEB-2024 10:00
Specific Location	TA-60-0001 Upper Yard
Inspector Name	LUTZ TIMOTHY J
Person Identifying Condition	LUTZ TIMOTHY J
Report Status	A new corrective action
Finding Description	Control measures inadequate to meet non-numeric effluent limitations - Housexeeping
Parameter	NA
Outfall	NA
Problem Description	Non-operational pumps stored outside and uncovered.
AIM Level	NA
AIM Ekception	NA
Inspection Type	Routine facility inspection
Inspection Type Other Description	
Corrective Action Description	Remove equipment from site or store in covered location. Items removed 2/24/2024.
7 as the problem identified at an outfall that has associated SIDPs7	
SIDP3s A3ected	
SIDP Action Taxen	
Does Corrective Action require modification of S7 PPP7	N
Corrective Action Initiate Date	22-FEB-2024 12:00
Corrective Action Complete Date	2WFEB-2024 16:00
Corrective Action Ekpected Completion Date	0’ -MAR-2024 12:00
Days to Taxe Action	0
Days Open	1
Status Description	
Date EPA Notified of Intent to Ekceed 45 Days	
Date EPA Notified of Intent to Ekceed 90 Days	
Baseline Date	

MSGP-CAR REPORT

Corrective Action #	**2380**
FOD	IF
MSGP Facility Description	TA-60-0001 Heavy Equipment Yard
Inspection Date	18-MAR-2024 13:30
Date EPC Notified	18-MAR-2024 13:30
Specific Location	TA-60-0001 Upper Yard
Inspector Name	LUTZ TIMOTHY J
Person Identifying Condition	LUTZ TIMOTHY J
Report Status	A new corrective action
Finding Description	Control measures inadequate to meet non-numeric effluent limitations - Exposed material
Parameter	NA
Outfall	NA
Problem Description	Various products inside cardboard boxes in various places in the upper yard out in the snow. The cardboard is degraded and falling apart. Product should be protected to prevent degeneration.
AIM Level	NA
AIM Exception	NA
Inspection Type	Routine facility inspection
Inspection Type Other Description	
Corrective Action Description	Store product in cardboard boxes inside or cover with tarp.
Was the problem identified at an outfall that has associated SIDPs?	N
SIDP's Affected	
SIDP Action Taken	
Does Corrective Action require modification of SWPPP?	N
Corrective Action Initiate Date	18-MAR-2024 14:00
Corrective Action Complete Date	20-MAR-2024 16:00
Corrective Action Expected Completion Date	31-MAR-2024 16:00
Days to Take Action	0
Days Open	2
Status Description	
Date EPA Notified of Intent to Exceed 45 Days	
Date EPA Notified of Intent to Exceed 90 Days	
Baseline Date	

MSGP-CAR REPORT

Corrective Action #	**2381**
FOD	IF
MSGP Facility Description	TA-60-0001 Heavy Equipment Yard
Inspection Date	18-MAR-2024 13:15
Date EPC Notified	18-MAR-2024 14:15
Specific Location	TA-60-0001 backside of building
Inspector Name	LUTZ TIMOTHY J
Person Identifying Condition	LUTZ TIMOTHY J
Report Status	A new corrective action
Finding Description	Control measures inadequate to meet non-numeric effluent limitations - Housekeeping
Parameter	NA
Outfall	NA
Problem Description	Carts used to collect metal and cardboard materials for transfer to roll-offs were left uncovered overnight or over the weekend. Material inside was exposed to the snow.
AIM Level	NA
AIM Exception	NA
Inspection Type	Routine facility inspection
Inspection Type Other Description	
Corrective Action Description	Empty carts before end of day or keep covered if material left inside overnight.
Was the problem identified at an outfall that has associated SIDPs?	N
SIDP's Affected	
SIDP Action Taken	
Does Corrective Action require modification of SWPPP?	N
Corrective Action Initiate Date	18-MAR-2024 14:00
Corrective Action Complete Date	20-MAR-2024 16:00
Corrective Action Expected Completion Date	31-MAR-2024 16:00
Days to Take Action	0
Days Open	2
Status Description	
Date EPA Notified of Intent to Exceed 45 Days	
Date EPA Notified of Intent to Exceed 90 Days	
Baseline Date	

MSGP-CAR REPORT

Corrective Action #	**2383**
FOD	IF
MSGP Facility Description	TA-60-0001 Heavy Equipment Yard
Inspection Date	01-APR-2024 11:00
Date EPC Notified	01-APR-2024 11:05
Specific Location	TA-60-0001, Outfall 024
Inspector Name	LUTZ TIMOTHY J
Person Identifying Condition	LUTZ TIMOTHY J
Report Status	A new corrective action
Finding Description	Unauthorized release or discharge
Parameter	NA
Outfall	NA
Problem Description	Alethea Banar (ECP-CP) observed a slight oil sheen on discharge water from a snow storm entering Outfall 025.
AIM Level	NA
AIM Exception	NA
Inspection Type	Routine facility inspection
Inspection Type Other Description	
Corrective Action Description	Gravel bags were placed to impede the flow of water at the outfall. Facility personnel used absorbent pads/socks to remove floating oil. Personnel walked the yard and inspected vehicles/equipment but the source of oil could not be ascertained.
Was the problem identified at an outfall that has associated SIDPs?	
SIDP's Affected	
SIDP Action Taken	
Does Corrective Action require modification of SWPPP?	N
Corrective Action Initiate Date	01-APR-2024 11:30
Corrective Action Complete Date	01-APR-2024 16:30
Corrective Action Expected Completion Date	
Days to Take Action	0
Days Open	0
Status Description	
Date EPA Notified of Intent to Exceed 45 Days	
Date EPA Notified of Intent to Exceed 90 Days	
Baseline Date	

MSGP-CAR REPORT

Corrective Action #	**2386**
FOD	IF
MSGP Facility Description	TA-60-0001 Heavy Equipment Yard
Inspection Date	16-APR-2024 13:00
Date EPC Notified	16-APR-2024 13:00
Specific Location	TA-60-0001, various locations around facility
Inspector Name	LUTZ TIMOTHY J
Person Identifying Condition	LUTZ TIMOTHY J
Report Status	A new corrective action
Finding Description	Control measures inadequate to meet non-numeric effluent limitations - Housekeeping
Parameter	NA
Outfall	NA
Problem Description	Trash and debris at various places around facility. Rags in channel of Outfall 24; trash in storm water pond; trash in storm water channel between lower and upper yards.
AIM Level	NA
AIM Exception	NA
Inspection Type	Routine facility inspection
Inspection Type Other Description	
Corrective Action Description	Shop personnel will remove trash and debris. Personnel will periodically walk the site and check for trash/debris. Update: Debris removed on 4/17/2024.
Was the problem identified at an outfall that has associated SIDPs?	N
SIDP's Affected	
SIDP Action Taken	
Does Corrective Action require modification of SWPPP?	N
Corrective Action Initiate Date	16-APR-2024 14:00
Corrective Action Complete Date	17-APR-2024 12:00
Corrective Action Expected Completion Date	30-APR-2024 16:00
Days to Take Action	0
Days Open	1
Status Description	
Date EPA Notified of Intent to Exceed 45 Days	
Date EPA Notified of Intent to Exceed 90 Days	
Baseline Date	

MSGP-CAR REPORT

Corrective Action #	**2387**
FOD	IF
MSGP Facility Description	TA-60-0001 Heavy Equipment Yard
Inspection Date	16-AP2-2024 1: f00
Date EPC fi otiL ed	16-AP2-2024 1: f00
SpeciL c Ubcation	TA-60 Heavy EquipmentZupper yardZJ etf een structures 60-022g and 60-0: 2tfb
Inspector fi ame	UffT. TIMOTHY x
Person Identihyin/ Condition	UffT. TIMOTHY x
2eport Status	A nef corrective action
Findin/ Description	Control measures not properly operated or maintained
Parameter	fi A
Ou7all	fi A
ProJ lem Description	Metal L lter soc7s are required as control measures aJ ove and J elof a sediment trap located J etf een structures 60-022g and 60-0: 2tfbT8e metal L lter soc7s are required to J e replaced once per quarterbT8e soc7s 8ave not J een replaced in several quartersb
AIM Uevel	fi A
AIM Ekception	fi A
Inspection Type	2outine hacility inspection
Inspection Type Ot8er Description	
Corrective Action Description	2eplace 8eavy metal soc7s as soon as possiJ lebT8en replace soc7s once per quarter as requiredbffpdate 4, 2: , 24fi8eavy metal soc7s replacedb
3 as t8e proJ lem identiL ed at an ou7all t8at 8as associated SIDPs3	fi
SIDPWA? ected	
SIDP Action Ta7en	
Does Corrective Action require modiL cation ohS3 PPP3	fi
Corrective Action Initiate Date	16-AP2-2024 14f00
Corrective Action Complete Date	2: -AP2-2024 12f00
Corrective Action Ekpected Completion Date	: 0-AP2-2024 16f00
Days to Ta7e Action	0
Days Open	g
Status Description	
Date EPA fi otiL ed ohIntent to Ekceed 4’ Days	
Date EPA fi otiL ed ohIntent to Ekceed 50 Days	
9aseline Date	

MSGP-CAR REPORT

Corrective Action #	**2397**
FOD	IF
MSGP Facility Description	TA-60-0001 Heavy Equipment Yard
Inspection Date	21-MAY-2024 13:00
Date EPC Notified	21-MAY-2024 13:00
Specific Location	In sediment pond and storm channels through out TA-60-0001 facility.
Inspector Name	LUTZ TIMOTHY J
Person Identifying Condition	LUTZ TIMOTHY J
Report Status	A new corrective action
Finding Description	Control measures inadequate to meet non-numeric effluent limitations - Housekeeping
Parameter	NA
Outfall	NA
Problem Description	Trash has blown into storm water drainage channels and sediment pond.
AIM Level	NA
AIM Exception	NA
Inspection Type	Routine facility inspection
Inspection Type Other Description	
Corrective Action Description	Remove trash from storm water drainage channels and sediment pond. Update 5/30/2024. Debris/trash was verified removed on 5/29/2024.
Was the problem identified at an outfall that has associated SIDPs?	
SIDP's Affected	
SIDP Action Taken	
Does Corrective Action require modification of SWPPP?	N
Corrective Action Initiate Date	21-MAY-2024 14:00
Corrective Action Complete Date	29-MAY-2024 10:00
Corrective Action Expected Completion Date	03-JUN-2024 16:30
Days to Take Action	0
Days Open	8
Status Description	
Date EPA Notified of Intent to Exceed 45 Days	
Date EPA Notified of Intent to Exceed 90 Days	
Baseline Date	

MSGP-CAR REPORT

Corrective Action #	**2398**
FOD	IF
MSGP Facility Description	TA-60-0001 Heavy Equipment Yard
Inspection Date	21-MAY-2024 13:30
Date EPC Notified	21-MAY-2024 13:30
Specific Location	TA-60-0001 Lower Yard
Inspector Name	LUTZ TIMOTHY J
Person Identifying Condition	LUTZ TIMOTHY J
Report Status	A new corrective action
Finding Description	Control measures inadequate to meet non-numeric effluent limitations - Housekeeping
Parameter	NA
Outfall	NA
Problem Description	A piece of equipment with three large white tanks connected to hoses is being stored in the Lower Yard of ta-60-0001. The tanks being stored contain oil and antifreeze.
AIM Level	NA
AIM Exception	NA
Inspection Type	Routine facility inspection
Inspection Type Other Description	
Corrective Action Description	Drain oil and antifreeze from the tanks and dispose of properly. Update 6/4/2024; Tanks were moved inside building and fluids will be drained.
Was the problem identified at an outfall that has associated SIDPs?	
SIDP's Affected	
SIDP Action Taken	
Does Corrective Action require modification of SWPPP?	N
Corrective Action Initiate Date	21-MAY-2024 14:00
Corrective Action Complete Date	31-MAY-2024 14:00
Corrective Action Expected Completion Date	03-JUN-2024 16:30
Days to Take Action	0
Days Open	10
Status Description	
Date EPA Notified of Intent to Exceed 45 Days	
Date EPA Notified of Intent to Exceed 90 Days	
Baseline Date	

MSGP-CAR REPORT

Corrective Action #	**2401**
FOD	IF
MSGP Facility Description	TA-60-0001 Heavy Equipment Yard
Inspection Date	28-MAY-2024 10:00
Date EPC Notified	28-MAY-2024 10:15
Specific Location	TA-60-0001
Inspector Name	LUTZ TIMOTHY J
Person Identifying Condition	
Report Status	A new corrective action
Finding Description	Unauthorized release or discharge
Parameter	NA
Outfall	NA
Problem Description	Fire water and suppression was foam released during a fire truck cleaning at 60-0001 Heavy Equipment Shop. Approximately 50 gallons of Alpha-olefin Sulfonate Solution (Non-hazardous) (CAS-No. Trade Secret); 2,4-Pentanediol, 2-methyl- (CAS-No. 107-41-5 10 ¿ 30); and Water (CAS-No. 7732-18-5) was released to asphalt. Approximately 30 gallons entered into an Oil/Water Separator that leads to SWWS.
AIM Level	NA
AIM Exception	NA
Inspection Type	Other (describe) :
Inspection Type Other Description	Unauthorized release notification.
Corrective Action Description	Building personnel applied de-foamer and swept the remaining water into the separator trough.
Was the problem identified at an outfall that has associated SIDPs?	
SIDP's Affected	
SIDP Action Taken	
Does Corrective Action require modification of SWPPP?	N
Corrective Action Initiate Date	28-MAY-2024 11:00
Corrective Action Complete Date	28-MAY-2024 11:00
Corrective Action Expected Completion Date	
Days to Take Action	0
Days Open	0
Status Description	
Date EPA Notified of Intent to Exceed 45 Days	
Date EPA Notified of Intent to Exceed 90 Days	
Baseline Date	

MSGP-CAR REPORT

Corrective Action #	**2404**
FOD	IF
MSGP Facility Description	TA-60-0001 Heavy Equipment Yard
Inspection Date	17-JUN-2024 13:00
Date EPC Notified	17-JUN-2024 13:00
Specific Location	Parking lot in far northeast corner of TA-60-0001 near intersection of Enewetak and Maniac.
Inspector Name	LUTZ TIMOTHY J
Person Identifying Condition	
Report Status	A new corrective action
Finding Description	Unauthorized release or discharge
Parameter	NA
Outfall	NA
Problem Description	A private vehicle appears to have damaged an oil pan driving through a rut/ ditch. Oil leaked onto the ground as the car exited the parking lot onto Maniac then turned right onto Enetewak. Oil leaked for approximately 50 yards total (10 yards in parking lot).
AIM Level	NA
AIM Exception	NA
Inspection Type	Routine facility inspection
Inspection Type Other Description	
Corrective Action Description	Roads and grounds responded and removed oil-stained dirt; applied kitty litter to asphalt to remove and remaining oil; and micro-blazed entire spill area.
Was the problem identified at an outfall that has associated SIDPs?	
SIDP's Affected	
SIDP Action Taken	
Does Corrective Action require modification of SWPPP?	N
Corrective Action Initiate Date	17-JUN-2024 14:00
Corrective Action Complete Date	17-JUN-2024 14:50
Corrective Action Expected Completion Date	
Days to Take Action	0
Days Open	0
Status Description	
Date EPA Notified of Intent to Exceed 45 Days	
Date EPA Notified of Intent to Exceed 90 Days	
Baseline Date	

MSGP-CAR REPORT

Corrective Action #	**2406**
FOD	IF
MSGP Facility Description	TA-60-0001 Heavy Equipment Yard
Inspection Date	25-JUN-2024 10:00
Date EPC Notified	25-JUN-2024 10:00
Specific Location	Several places in upper and lower yard.
Inspector Name	LUTZ TIMOTHY J
Person Identifying Condition	LUTZ TIMOTHY J
Report Status	A new corrective action
Finding Description	Control measures inadequate to meet non-numeric effluent limitations - Housekeeping
Parameter	NA
Outfall	NA
Problem Description	In several places in the upper and lower yard, parts and/or equipment are stored outside in badly deteriorated cardboard boxes. Update 7//9/2024: debris cleaned up.
AIM Level	NA
AIM Exception	NA
Inspection Type	Routine facility inspection
Inspection Type Other Description	
Corrective Action Description	Facility personal should find proper storage for parts equipment and clean up/dispose of deteriorated cardboard boxes.
Was the problem identified at an outfall that has associated SIDPs?	
SIDP's Affected	
SIDP Action Taken	
Does Corrective Action require modification of SWPPP?	N
Corrective Action Initiate Date	08-JUL-2024 07:00
Corrective Action Complete Date	08-JUL-2024 15:00
Corrective Action Expected Completion Date	
Days to Take Action	13
Days Open	13
Status Description	
Date EPA Notified of Intent to Exceed 45 Days	
Date EPA Notified of Intent to Exceed 90 Days	
Baseline Date	

MSGP-CAR REPORT

Corrective Action #	**2074**
FOD	IF
MSGP Facility Description	TA-60-0001 Heavy Equipment Yard
Inspection Date	25-JUN-2024 10:00
Date EPC Notified	25-JUN-2024 10:00
Specific Location	Lower yard. alonZ east side near storm inlet and in soutf east cornerg
Inspector Name	LUTR TIMOTHY J
Person Identiffjinz Condition	LUTR TIMOTHY J
keport Status	A new corrective action
FindinZ Description	Control measures inadequate to meet non-numeric etf uent limitations - HousebeepinZ
Parameter	NA
Ouhall	NA
Pro, lem Description	Two de, ris piles. one alonZ eastern edZe offlower yard and one in soutf east corner offlower yardgTf e de, ris pile alonZ tf e eastern edZe includes card, oard and metal gTf e de, ris pile in tf e soutf east corner appears to , e components removed fflom a vef icle. includinZ electronic partsg
AIM Level	NA
AIM E/ception	NA
Inspection Type	koutine ffacility inspection
Inspection Type Otf er Description	
Corrective Action Description	Facility personnel sf ould remove de, ris and dispose offproperlygUpdate x7972024gDe, ris clearedg
Was tf e pro, lem identified at an ouhall tf at f as associated SIDPs?	
SIDP's Affected	
SIDP Action Taben	
Does Corrective Action require modification offSWPPP?	N
Corrective Action Initiate Date	08-JUL-2024 0x:00
Corrective Action Complete Date	08-JUL-2024 12:00
Corrective Action E/pected Completion Date	
Days to Tabe Action	13
Days Open	13
Status Description	
Date EPA Notified offIntent to E/ceed 45 Days	
Date EPA Notified offIntent to E/ceed 90 Days	
Baseline Date	

MSGP-CAR REPORT

Corrective Action #	**2426**
FOD	IF
MSGP Facility Description	TA-60-0001 Heavy Equipment Yard
Inspection Date	26-SEP-2024 11:00
Date EPC Notified	26-SEP-2024 11:00
Specific Location	TA-60-0001 Lower Yard
Inspector Name	LUTZ TIMOTHY J
Person Identifying Condition	LUTZ TIMOTHY J
Report Status	A new corrective action
Finding Description	Unauthorized release or discharge
Parameter	NA
Outfall	NA
Problem Description	Vehicle hoists stored in lower yard leaking hydraulic oil onto ground.
AIM Level	NA
AIM Exception	NA
Inspection Type	Routine facility inspection
Inspection Type Other Description	
Corrective Action Description	Personnel verify that oil has been drained from hoists. If not, drain hydraulic oil and/or provide containment under leaking hoist parts. Clean spill and dispose of waste. Hoist were placed inside roll off bins and will be removed from site. The Impacted soil from the leaks was excavate and removed as waste. 10/9/2024
Was the problem identified at an outfall that has associated SIDPs?	N
SIDP's Affected	
SIDP Action Taken	
Does Corrective Action require modification of SWPPP?	N
Corrective Action Initiate Date	26-SEP-2024 12:30
Corrective Action Complete Date	09-OCT-2024 12:00
Corrective Action Expected Completion Date	10-OCT-2024 16:00
Days to Take Action	0
Days Open	13
Status Description	
Date EPA Notified of Intent to Exceed 45 Days	
Date EPA Notified of Intent to Exceed 90 Days	
Baseline Date	

MSGP-CAR REPORT

Corrective Action #	**2428**
FOD	IF
MSGP Facility Description	TA-60-0001 Heavy Equipment Yard
Inspection Date	09-OCT-2024 13:30
Date EPC Notified	09-OCT-2024 13:30
Specific Location	Upper parking yard behind the TA-60-0001 building.
Inspector Name	FLORES JAIRO
Person Identifying Condition	FLORES JAIRO
Report Status	A new corrective action
Finding Description	Unauthorized release or discharge
Parameter	NA
Outfall	NA
Problem Description	During site inspection it was discovered that refueling truck E304640 was leaking oil into asphalt. Absorbent pads were placed at site of the leaks to limit extent of release.
AIM Level	NA
AIM Exception	NA
Inspection Type	Routine facility inspection
Inspection Type Other Description	
Corrective Action Description	Operational staff was notified of the equipment and refueling truck was removed from the yard for service. Absorbents pads were removed and micro blaze was applied to impacted area.
Was the problem identified at an outfall that has associated SIDPs?	N
SIDP's Affected	
SIDP Action Taken	
Does Corrective Action require modification of SWPPP?	N
Corrective Action Initiate Date	09-OCT-2024 13:40
Corrective Action Complete Date	09-OCT-2024 13:40
Corrective Action Expected Completion Date	09-OCT-2024 13:40
Days to Take Action	0
Days Open	0
Status Description	
Date EPA Notified of Intent to Exceed 45 Days	
Date EPA Notified of Intent to Exceed 90 Days	
Baseline Date	

MSGP-CAR REPORT

Corrective Action #	**2429**
FOD	IF
MSGP Facility Description	TA-60-0001 Heavy Equipment Yard
Inspection Date	22-OCT-2024 15:00
Date EPC Notified	22-OCT-2024 15:00
Specific Location	Check dams (6000406010054 & 6000406010054) along Maniac street on the northwest area of the site.
Inspector Name	FLORES JAIRO
Person Identifying Condition	FLORES JAIRO
Report Status	A new corrective action
Finding Description	Control measures not properly operated or maintained
Parameter	NA
Outfall	NA
Problem Description	Two check dams identified on the SWPPP map as stormwater controls 6000406010054 and 6000406010055 are full with sediment and require maintenance.
AIM Level	NA
AIM Exception	NA
Inspection Type	Routine facility inspection
Inspection Type Other Description	
Corrective Action Description	Sediment from the associated check dams will be excavated and removed to ensure that check dams can function as designed. Accumulated sediment at the before mentioned check dams controls was removed . 10/29/24
Was the problem identified at an outfall that has associated SIDPs?	N
SIDP's Affected	
SIDP Action Taken	
Does Corrective Action require modification of SWPPP?	N
Corrective Action Initiate Date	23-OCT-2024 10:18
Corrective Action Complete Date	29-OCT-2024 07:00
Corrective Action Expected Completion Date	05-NOV-2024 10:18
Days to Take Action	1
Days Open	7
Status Description	
Date EPA Notified of Intent to Exceed 45 Days	
Date EPA Notified of Intent to Exceed 90 Days	
Baseline Date	

MSGP-CAR REPORT

Corrective Action #	**2430**
FOD	IF
MSGP Facility Description	TA-60-0001 Heavy Equipment Yard
Inspection Date	22-OCT-2024 15:15
Date EPC Notified	22-OCT-2024 15:15
Specific Location	
Inspector Name	FLORES JAIRO
Person Identifying Condition	FLORES JAIRO
Report Status	A new corrective action
Finding Description	Control measures not properly operated or maintained
Parameter	NA
Outfall	NA
Problem Description	The drop inlet with petro plugs control on the south east corner of the upper yard requires the filters to be changed and sediment within the surrounding bermed area to be excavated and removed.
AIM Level	NA
AIM Exception	NA
Inspection Type	Routine facility inspection
Inspection Type Other Description	
Corrective Action Description	Maintenance work will be scheduled. Filters for the drop inlet will be changed out and sediment within and around the control will be excavated and removed. Maintenance of the control was completed on 11/1/2024 this included the installation of a new top filter and removal of sediment near the control.
Was the problem identified at an outfall that has associated SIDPs?	N
SIDP's Affected	
SIDP Action Taken	
Does Corrective Action require modification of SWPPP?	N
Corrective Action Initiate Date	23-OCT-2024 10:32
Corrective Action Complete Date	01-NOV-2024 02:00
Corrective Action Expected Completion Date	05-NOV-2024 10:32
Days to Take Action	1
Days Open	10
Status Description	
Date EPA Notified of Intent to Exceed 45 Days	
Date EPA Notified of Intent to Exceed 90 Days	
Baseline Date	

MSGP-CAR REPORT

Corrective Action #	**2134**
FOD	IF
MSGP Facility Description	TA-60-0001 Heavy Equipment Yard
Inspection Date	22-OCT-2024 15:30
Date EPC Notified	22-OCT-2024 15:30
Specific Location	During site inspection it was dicorved that a on site fork lift parked on the east side of TA-60-0001 was leaking hydraulic fluid onto concrete floor.
Inspector Name	FLORES JAIRO
Person Identifying Condition	FLORES JAIRO
Report Status	A new corrective action
Finding Description	Unauthorized release or discharge
Parameter	NA
Outfall	NA
Problem Description	It was observed that a forklift parked on the east side of TA-60-0001 was leaking hydraulic fluid on concrete.
AIM Level	NA
AIM Exception	NA
Inspection Type	Routine facility inspection
Inspection Type Other Description	
Corrective Action Description	TA-60-0001 operational staff was notified of leaking equipment. Staff then contained and cleaned released material and equipment was moved inside for repairs. Unplanned Release form was filled out and sent to EPC-CP
Was the problem identified at an outfall that has associated SIDPs?	N
SIDP's Affected	
SIDP Action Taken	
Does Corrective Action require modification of SWPPP?	N
Corrective Action Initiate Date	22-OCT-2024 15:40
Corrective Action Complete Date	22-OCT-2024 15:50
Corrective Action Expected Completion Date	22-OCT-2024 15:50
Days to Take Action	0
Days Open	0
Status Description	
Date EPA Notified of Intent to Exceed 45 Days	
Date EPA Notified of Intent to Exceed 90 Days	
Baseline Date	

MSGP-CAR REPORT

Corrective Action #	**2442**
FOD	IF
MSGP Facility Description	TA-60-0001 Heavy Equipment Yard
Inspection Date	17-DEC-2024 10:00
Date EPC Notified	17-DEC-2024 10:00
Specific Location	EPC-CP was notified via the spills pager of a release of 2 gallons of potassium acetate solution into the asphalt parking lot on the upper yard of TA-60-0001.
Inspector Name	FLORES JAIRO
Person Identifying Condition	FLORES JAIRO
Report Status	A new corrective action
Finding Description	Unauthorized release or discharge
Parameter	NA
Outfall	NA
Problem Description	EPC-CP was notified via spills pager about a potassium acetate release at TA-60-0001 Heavy Equipment Yard (HEY). Potassium acetate is used by TA-60-0001 staff for deicing purposes during the winter. HEY staff reported that approximately 2 gallons released from a tank that is mounted on the bed of a onsite utility terrain vehicle. The released was caused by valve being left in a open position. Upon discovery HEY staff closed the valve to prevent additional discharge. HEY staff then applied Micro-Blaze to effected area. IF DEP confirmed that no potassium acetate solution had reached any drains or vegetation.
AIM Level	NA
AIM Exception	NA
Inspection Type	Other (describe) :
Inspection Type Other Description	IF-DEP responded to TA-60-0001 after being notified by MSGP program lead about the unplanned release on site.
Corrective Action Description	Upon discovery of leaking TA-60-0001 operational staff turned the valves into the closed position to prevent any additional discharge. Micro-Blaze was applied to affected areas. Area will also be monitored for any future precipitate from the potassium acetate. If any precipitate is found, staff will sweep and dispose of it.
Was the problem identified at an outfall that has associated SIDPs?	N
SIDP's Affected	
SIDP Action Taken	
Does Corrective Action require modification of SWPPP?	N
Corrective Action Initiate Date	17-DEC-2024 10:15
Corrective Action Complete Date	17-DEC-2024 10:20
Corrective Action Expected Completion Date	
Days to Take Action	0
Days Open	0
Status Description	
Date EPA Notified of Intent to Exceed 45 Days	
Date EPA Notified of Intent to Exceed 90 Days	
Baseline Date	

MSGP-CAR REPORT

Corrective Action #	**2446**
FOD	IF
MSGP Facility Description	TA-60-0001 Heavy Equipment Yard
Inspection Date	19-DEC-2024 11:30
Date EPC Notified	19-DEC-2024 11:30
Specific Location	Leaking equipment was discovered parked in the lower-yard.
Inspector Name	FLORES JAIRO
Person Identifying Condition	FLORES JAIRO
Report Status	A new corrective action
Finding Description	Unauthorized release or discharge
Parameter	NA
Outfall	NA
Problem Description	During annual routine facility inspection with MSGP program personnel "Asphalt Distributor E01566T" was found releasing fluid onto dirt.
AIM Level	NA
AIM Exception	NA
Inspection Type	Routine facility inspection
Inspection Type Other Description	
Corrective Action Description	TA-60-0001 Operational staff was notified of leaking equipment. Operation staff will reach out to LOG-HERG staff to remove equipment. Impacted soil will be excavated and disposed of.
Was the problem identified at an outfall that has associated SIDPs?	N
SIDP's Affected	
SIDP Action Taken	
Does Corrective Action require modification of SWPPP?	N
Corrective Action Initiate Date	19-DEC-2024 11:30
Corrective Action Complete Date	20-DEC-2024 12:30
Corrective Action Expected Completion Date	02-JAN-2025 14:00
Days to Take Action	0
Days Open	1
Status Description	
Date EPA Notified of Intent to Exceed 45 Days	
Date EPA Notified of Intent to Exceed 90 Days	
Baseline Date	

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: James Patrick O'Grady **Title:** Operations Manager 4 IF-DO

Signature: JAMES O'GRADY (Affiliate) Digitally signed by JAMES O'GRADY (Affiliate) Date: 2025.01.23 14:34:19 -07'00' **Date:** 1/23/2025

ATTACHMENT 10: SCHEDULED MAINTENANCE LOG

Date	Control Measure or Equipment Description (include location where appropriate)	Action Taken/Comments	Action Taken By
7/23/21	Pavement sweeping	Swept with pick up sweeper truck	R&G
8/23/21	Petro barrier boxes drop inlet	All sediment removed in the area in prep. for new units	60-1 crews
8/27/21	Pavement sweeping	Swept with pick up sweeper truck	R&G
9/16/21	Petro barrier box units at drop inlet	2 new units installed	60-1 crews
9/17/21	All MetalLox® wattles	Met-lox wattles replaced with new	BA
12/22/21	Pavement sweeping	Swept with pick up sweeper truck	R&G
2/15/22	All MetalLox® wattles	Met-lox wattles replaced with new	R&G
3/18/22	Pavement sweeping	Swept with pick up sweeper truck	R&G
4/22/22	Pavement sweeping	Swept with pick up sweeper truck	R&G
6/21/22	All MetalLox® wattles	Met-lox wattles replaced with new	R&G
7/15/22	Pavement sweeping	Swept with pick up sweeper truck	R&G
9/9/22	Pavement sweeping	Swept with pick up sweeper truck	R&G
9/27/22	All MetalLox® wattles	Met-lox wattles replaced with new	R&G
10/21/22	Pavement sweeping	Swept with pick up sweeper truck	R&G
11/18/22	Pavement sweeping	Swept with pick up sweeper truck	R&G

Date	Control Measure or Equipment Description (include location where appropriate)	Action Taken/Comments	Action Taken By
12/13/22	Oil Water Separator (OWS)	The sludge at the bottom of the OWS was cleaned out and the filter media was replaced.	Safety-Kleen and shop personnel
1/23/23	All MetalLox® wattles	MetalLox® wattles replaced with new	R&G
3/24/23	Pavement Sweeping	Swept with pick up sweeper truck	R&G
4/7/23	Pavement Sweeping	Swept with pick up sweeper truck	R&G
4/13/23	All MetalLox® wattles	MetalLox® wattles replaced with new	R&G
5/12/23	Pavement Sweeping	Swept with pick up sweeper truck	R&G
7/21/23	Pavement Sweeping	Swept with pick up sweeper truck	R&G
8/18/23	Pavement Sweeping	Swept with pick up sweeper truck	R&G
9/19/23	Pavement Sweeping	Swept with pick up sweeper truck	R&G
10/27/23	Pavement Sweeping	Swept with pick up sweeper truck	R&G
11/17/23	Pavement Sweeping	Swept with pick up sweeper truck	R&G
12/7/23	All MetalLox® wattles	MetalLox® wattles replaced with new	R&G
12/15/23	Pavement Sweeping	Swept with pick up sweeper truck	R&G
1/19/24	Pavement Sweeping	Swept with pick up sweeper truck	R&G
2/16/24	Pavement Sweeping	Swept with pick up sweeper truck	R&G

Date	Control Measure or Equipment Description (include location where appropriate)	Action Taken/Comments	Action Taken By
3/15/24	Pavement Sweeping	Swept with pick up sweeper truck	R&G
4/11/2024	Heavy Metal Filter Socks	Placed new	IF-FOD
4/19/24	Pavement Sweeping	Swept with pick up sweeper truck	R&G
5/17/24	Pavement Sweeping	Swept with pick up sweeper truck	R&G
6/21/24	Pavement Sweeping	Swept with pick up sweeper truck	R&G
7/12/24	Pavement Sweeping	Swept with pick up sweeper truck	R&G
8/16/24	Pavement Sweeping	Swept with pick up sweeper truck	R&G
8/20/24	Heavy Metal Filter Socks	Replaced with new	IF-FOD
9/26/24	HuskyGuard Above-Drain Stormwater Filter & Husky Stormwater Oil & Sediment Filter DamSock	Placed new at Outfall 23	IF-FOD
9/27/24	Pavement Sweeping	Swept with pick up sweeper truck	R&G
10/11/24	Pavement Sweeping	Swept with pick up sweeper truck	R&G
11/1/24	Petro Plug Drop Inlet	Filter was replaced with new	LOG-HERG
11/27/24	Pavement Sweeping	Swept with pick up sweeper truck	R&G
12/24/24	Pavement Sweeping	Swept with pick up sweeper truck	R&G

ATTACHMENT 11: TRAINING DOCUMENTATION

Information on employees training is available upon request

MSGP/SPCC TRAINING FOR TA-60-1 Heavy Equipment Shops

Presented by Jacob Knight
Deployed Environmental Professional

October 2022

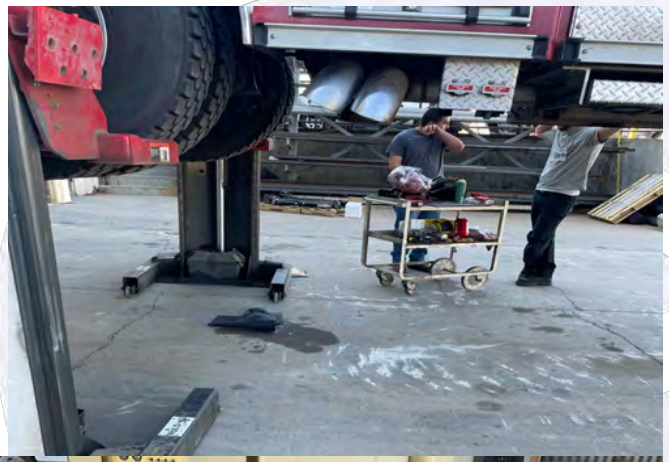
What is the MSGP?

- 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
  - 60-1 Industrial activities include:
    - Land Transportation and Warehousing
    - Fabricated Metal Products
- 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

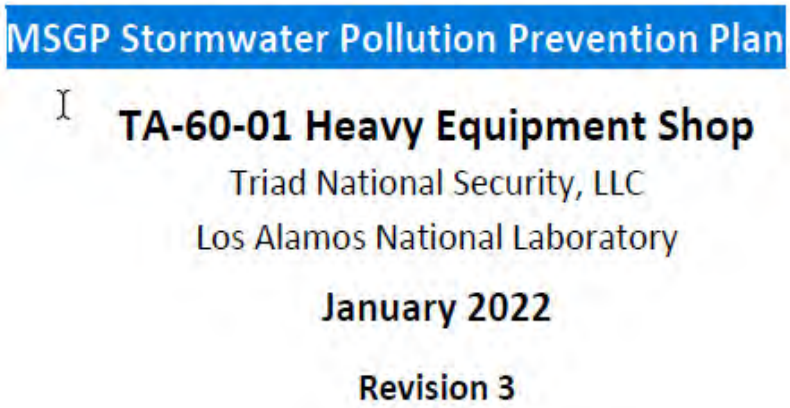


Stormwater Control Measures (SCMs) or Best Management Practices (BMPs)

- 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


MSGP Stormwater Pollution Prevention Plan

TA-60-01 Heavy Equipment Shop

Triad National Security, LLC

Los Alamos National Laboratory

January 2022

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?

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 (Jacob Knight) when corrective actions are completed so I can close out the open corrective action (emails go out on these).

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 infeasible to complete the necessary work.

Things to look for – be proactive

- Pick up garbage when observed on-site and in drainage
- Check trucks, loaders, forklifts and other heavy equipment for leaks prior to using them. Inspect delivered equipment for leaks, esp. before unloading and moving
- Monitor function of the oil/water separator – Ensure the trench drain is maintained every 6 months by removing dirt and sediments from to prevent clogs.
- Ensure all dumpster lids remain closed
- Ensure all raw metals are covered
- Contain fines from cutting, grinding and welding on a tarp or sweep fabrication areas and remove fines after fabrication work
- Place fines in a metal drum or 5 gallon metal bucket inside the building. Once full, seal the bucket or drum and place it in the metal for recycle bin
- Don’t overfill metal recycle bin and keep it fully covered
- Keep batteries under cover
- If in doubt, call your DEP (Jacob Knight 505-665-5880)

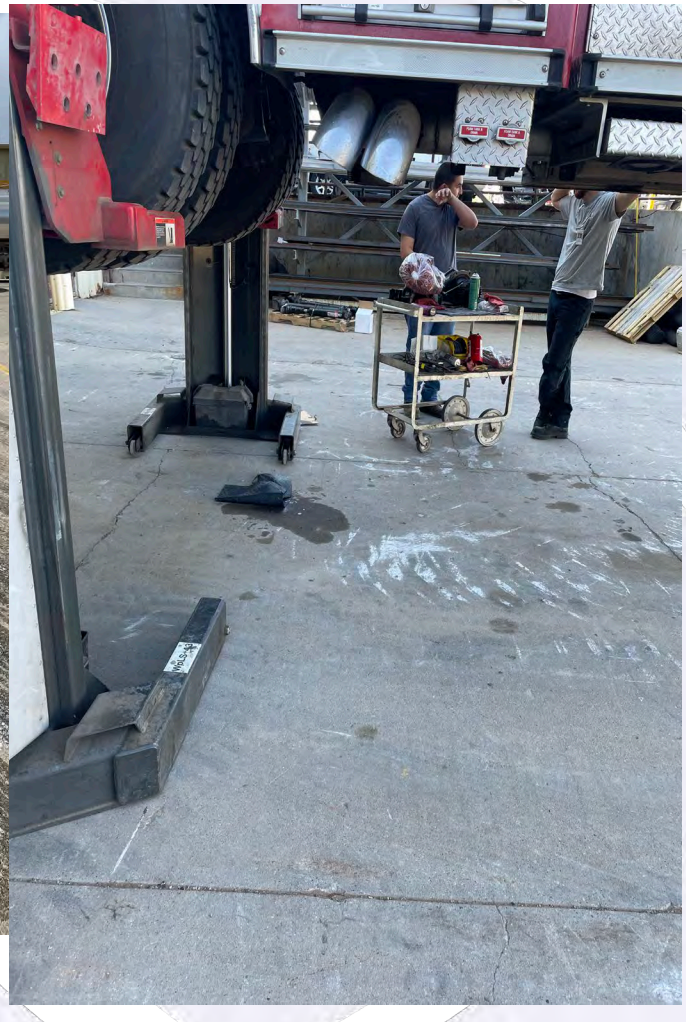
Oil Handling and Unplanned Releases/Spills

- Storage tanks shall not be filled over 90%
  - How is this accomplished?
- When refueling avoid topping off and ensure drip pan or other secondary containment is in use to avoid spills
- Don’t refuel during precipitation events
- Monitor secondary containment areas
- Keep oil/fuel containers closed when not in use
- Keep drip pans/spill pads handy when working on equipment

Oil Handling and Unplanned Releases/Spills

- Regulatory Driver: New Mexico Water Quality Control Commission Regulations (20.6.2.1203 NMAC) require that any spill impacting a storm water drainage system, watercourse, groundwater, SWMU or AOC be reported to the NMED.
- Small spills that are completely remediated in a timely manner may not be reportable, but the release must be reported to the EPC spills program (spill pager # next slide), remediated, and documented on an Unplanned Release Report. Untimely clean-up may change a non-reportable event to a reportable event.
- Spills that occur indoors must also be reported to the spills pager..505-664-7722

Oil Handling and Unplanned Releases/Spills



Unplanned Releases/Spills

- Immediately notify EPC 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 has to be reported.
- EPC Spills Pager – (664-7722)
- Contact EOSC – (667-2400) if the unplanned release is an emergency.
- TRIAD must notify NMED within 24 hours of every “Reportable” spill and follow 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?

Follow up walk around to be completed with laborers to discuss housekeeping and stormwater controls in the field

MSGP/SPCC TRAINING FOR TA-60-1 Heavy Equipment Shops

Presented by Jacob Knight

Deployed Environmental Professional

November 2023

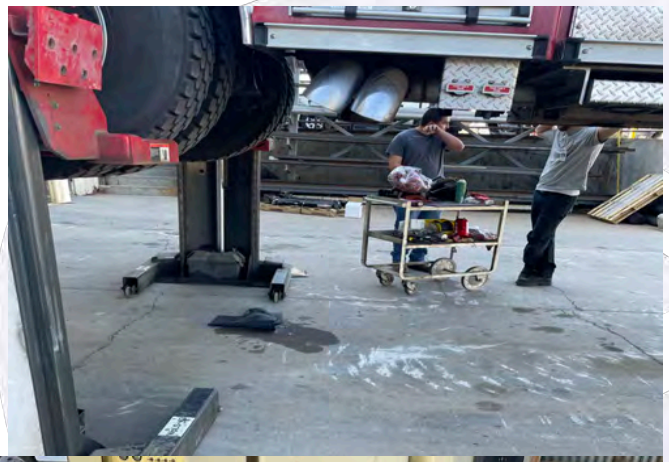
What is the MSGP?

- 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
  - 60-1 Industrial activities include:
    - Land Transportation and Warehousing
    - Fabricated Metal Products
- 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



Pollutants

- Use proper spill management controls – don’t just react to spills. Try to prevent them in the first place. Be especially proactive in soil areas it’s much harder to clean up and creates a lot of waste ($$).

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

When Do I Perform A Routine Facility Inspection (RFI)?

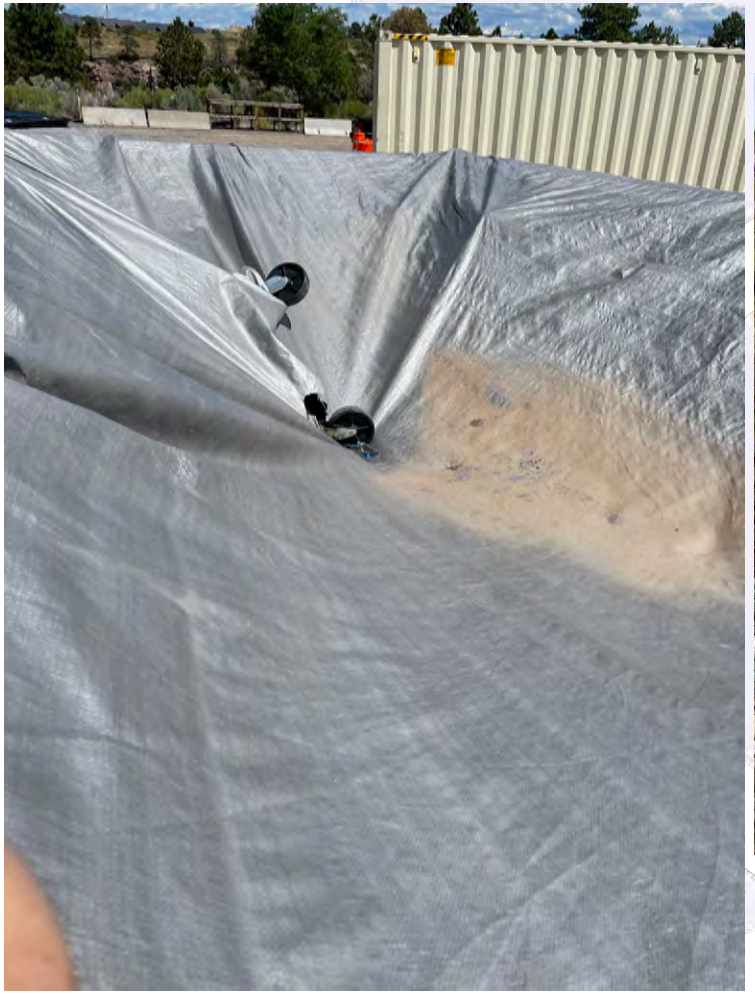
- Monthly
- At least once a calendar year during a stormwater discharge

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?

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 (Jacob Knight) when corrective actions are completed so I can close out the open corrective action (emails go out on these).

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 infeasible to complete the necessary work.

Things to look for – be proactive

- Pick up garbage when observed on-site and in drainage
- Check trucks, loaders, forklifts and other heavy equipment for leaks prior to using them. Inspect delivered equipment for leaks, esp. before unloading and moving
- Monitor function of the oil/water separator – Ensure the trench drain is maintained every 6 months by removing dirt and sediments from to prevent clogs.
- Ensure all dumpster lids remain closed
- Ensure all raw metals are covered
- Contain fines from cutting, grinding and welding on a tarp or sweep fabrication areas and remove fines after fabrication work
- Place fines in a metal drum or 5 gallon metal bucket inside the building. Once full, seal the bucket or drum and place it in the metal for recycle bin
- Don’t overfill metal recycle bin and keep it fully covered
- Keep batteries under cover
- If in doubt, call your DEP (Jacob Knight 505-665-5880)

Oil Handling and Unplanned Releases/Spills

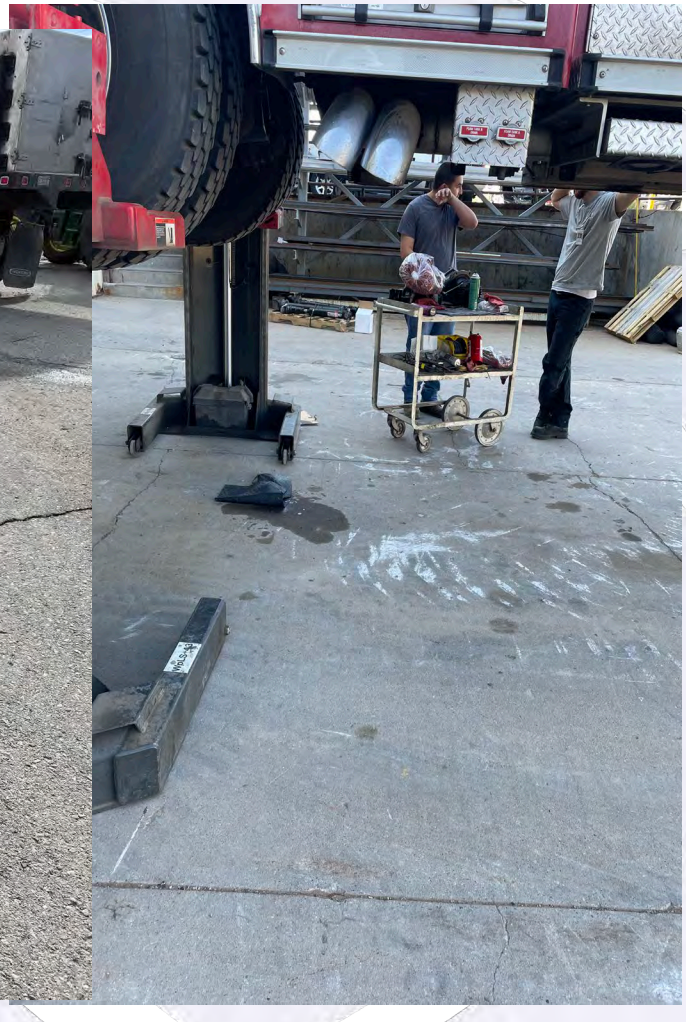
- Storage tanks shall not be filled over 90%
  - How is this accomplished?
- When refueling avoid topping off and ensure drip pan or other secondary containment is in use to avoid spills
- Don’t refuel during precipitation events
- Monitor secondary containment areas
- Keep oil/fuel containers closed when not in use
- Keep drip pans/spill pads handy when working on equipment

Oil Handling and Unplanned Releases/Spills

- Regulatory Driver: New Mexico Water Quality Control Commission Regulations (20.6.2.1203 NMAC) require that any spill impacting a storm water drainage system, watercourse, groundwater, SWMU or AOC be reported to the NMED.
- Small spills that are completely remediated in a timely manner may not be reportable, but the release must be reported to the DEP and EPC spills program (spill pager 664-7722), remediated, and documented on an Unplanned Release Report. Untimely clean-up may change a non-reportable event to a reportable event.
- Spills that occur indoors must also be reported to the spills pager..505-664-7722

Oil Handling and Unplanned Releases/Spills

Oil Handling and Unplanned Releases/Spills

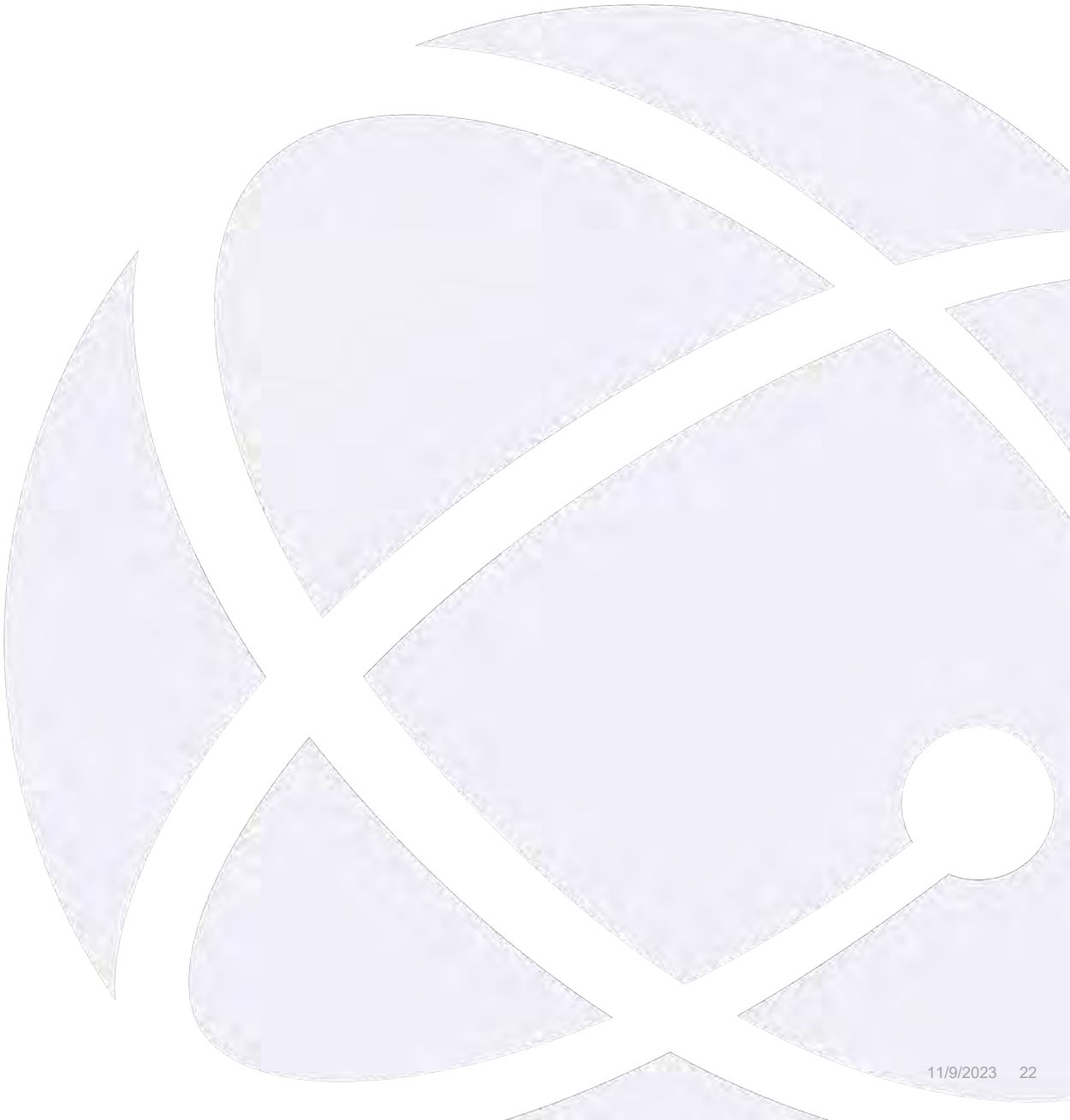


Unplanned Releases/Spills

- Immediately notify EPC 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 has to be reported.
- EPC Spills Pager – (664-7722) and DEP
- Contact EOSC – (667-2400) if the unplanned release is an emergency.
- TRIAD must notify NMED within 24 hours of every “Reportable” spill and follow 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?



MSGP Briefing for TA-60-1 Heavy Equipment Shops

Presented by Jairo Flores
Deployed Environmental Professional

December 2024

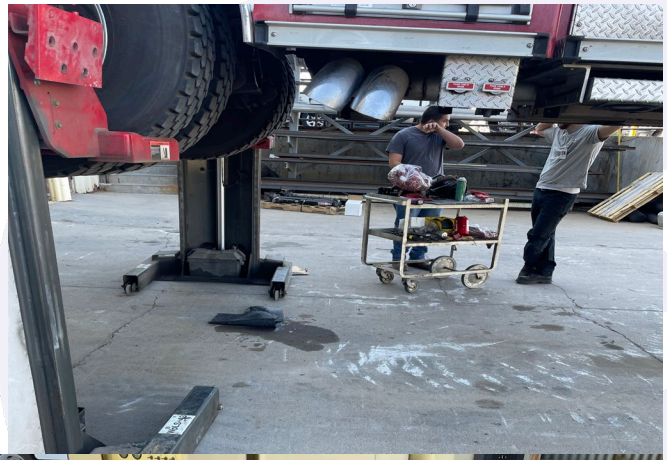
What is the MSGP?

- 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
  - 60-1 Industrial activities include:
    - Land Transportation and Warehousing
    - Fabricated Metal Products
- 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



Pollutants

- Use proper spill management controls – don’t just react to spills. Try to prevent them in the first place. Be especially proactive in soil areas it’s much harder to clean up and creates a lot of waste ($$).

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

When Do I Perform A Routine Facility Inspection (RFI)?

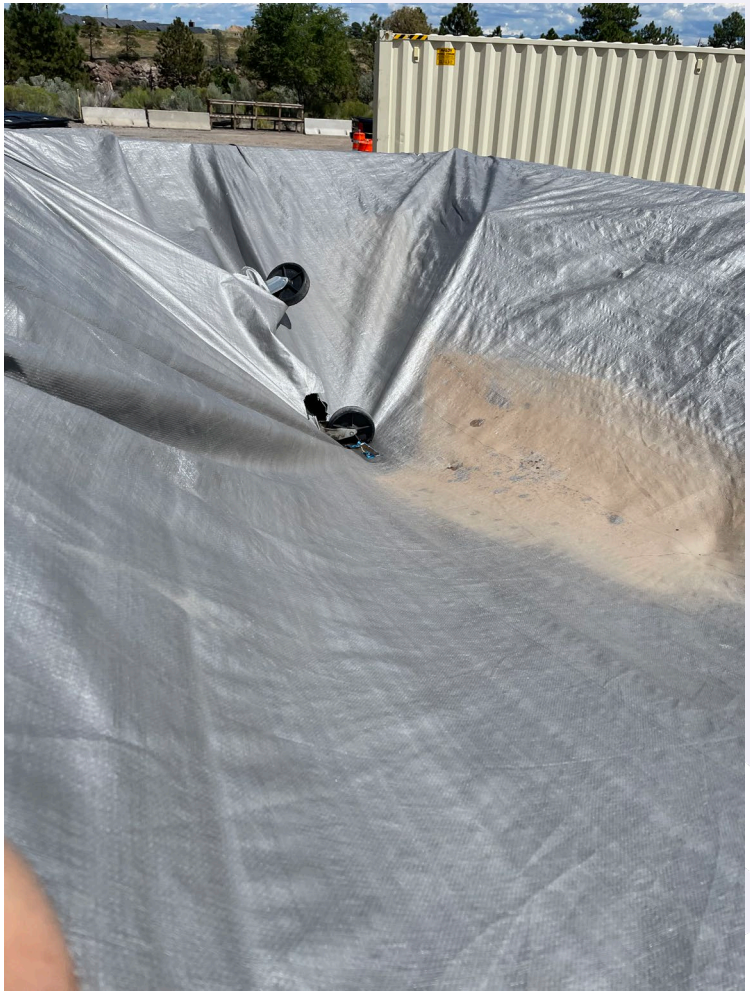
- Monthly
- At least once a calendar year during a stormwater discharge

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?

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 (Jacob Knight) when corrective actions are completed so I can close out the open corrective action (emails go out on these).

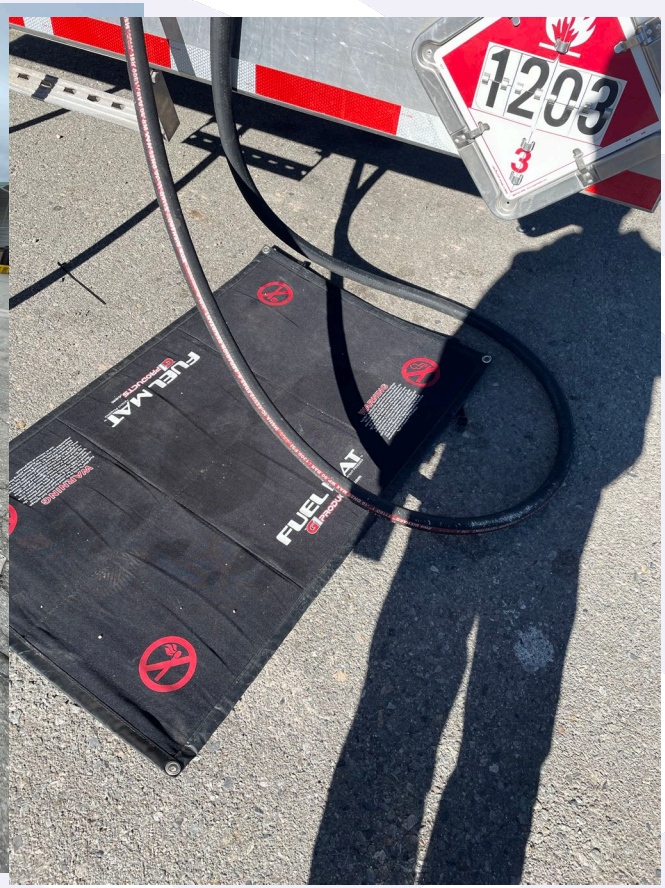
Corrective Action Documentation

- 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 infeasible to complete the necessary work.

Things to look for – be proactive

- Pick up garbage when observed on-site and in drainage
- Check trucks, loaders, forklifts and other heavy equipment for leaks prior to using them. Inspect delivered equipment for leaks, esp. before unloading and moving
- Monitor function of the oil/water separator – Ensure the trench drain is maintained every 6 months by removing dirt and sediments from to prevent clogs.
- Ensure all dumpster lids remain closed
- Ensure all raw metals are covered
- Contain fines from cutting, grinding and welding on a tarp or sweep fabrication areas and remove fines after fabrication work
- Place fines in a metal drum or 5 gallon metal bucket inside the building. Once full, seal the bucket or drum and place it in the metal for recycle bin
- Don’t overfill metal recycle bin and keep it fully covered
- Keep batteries under cover
- If in doubt, call your DEP (Jacob Knight 505-665-5880)

Oil Handling and Unplanned Releases/Spills



Oil Handling and Unplanned Releases/Spills

Questions?

ATTACHMENT 12: MSGP (OR ACTIVE URL)

The active URL to access the permit is:

2021 Multi-Sector General Permit

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
Author(s):	Thompson, Brent Eugene Hathcock, Charles Dean Sanchez, Audrey Anna
Intended for:	Environmental Regulatory Document
Issued:	2022-04-14 (rev.2)

Los Alamos
NATIONAL LABORATORY

Los Alamos National Laboratory, an affirmative action/equal opportunity employer, is operated by Triad National Security, LLC for the National Nuclear Security Administration of U.S. Department of Energy under contract 89233218CNA000001. By approving this article, the publisher recognizes that the U.S. Government retains nonexclusive, royalty-free license to publish or reproduce the published form of this contribution, or to allow others to do so, for U.S. Government purposes. Los Alamos National Laboratory requests that the publisher identify this article as work performed under the auspices of the U.S. Department of Energy. Los Alamos National Laboratory strongly supports academic freedom and a researcher's right to publish; as an institution, however, the Laboratory does not endorse the viewpoint of a publication or guarantee its technical correctness.

LA-UR-22-20556
January 2022
Approved for public release;
distribution is unlimited.

Threatened and Endangered Species Habitat Management Plan for Los Alamos National Laboratory

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

Editing and Layout by: Tamara Hawman
Communication Arts & Services
Los Alamos National Laboratory

Cover photo: Mexican Spotted Owls at Los Alamos National Laboratory

NOTICE: This report was prepared as an account of work sponsored by an agency of the United States Government. Neither the United States Government, nor any agency thereof, nor any of their employees, nor any of their contractors, subcontractors, or their employees, make any warranty, express or implied, or assume any legal liability or responsibility for the accuracy, completeness, or usefulness of any information, apparatus, product, or process disclosed, or represent that its use would not infringe privately owned rights. Reference herein to any specific commercial product, process, or service by trade name, trademark, manufacturer, or otherwise, does not necessarily constitute or imply its endorsement, recommendation, or favoring by the United States Government, any agency thereof, or any of their contractors or subcontractors. The views and opinions expressed herein do not necessarily state or reflect those of the United States Government or any agency thereof.

CONTENTS

I. THREATENED AND ENDANGERED SPECIES HABITAT MANAGEMENT PLAN GENERAL OVERVIEW 1
1.0 Introduction 1
2.0 Role of Site Plans in the HMP 1
3.0 Description of Areas of Environmental Interest 1
3.1 Definition and Role of Developed Areas in AEI Management 2
3.2 General Description of Buffer Areas and Allowable Buffer Area Development 2
3.3 Emergency Actions 2
4.0 Implementation of Site Plans 3
4.1 Roles and Responsibilities 3
4.2 Activities that Do Not Meet Site Plan Guidelines 4
4.3 Dissemination of Information 4
5.0 Changes in the HMP since Implementation 4
6.0 Data Management 5
II. AREA OF ENVIRONMENTAL INTEREST SITE PLAN FOR THE MEXICAN SPOTTED OWL . 6
1.0 Species Description—Mexican Spotted Owl 6
1.1 Status 6
1.2 General Biology 6
1.3 Threats 7
2.0 Impact of Human Activities 7
2.1 Introduction 7
2.2 Impacts on Habitat Quality 7
3.0 AEI General Description for Mexican Spotted Owl 11
3.1 Method for Identifying a Mexican Spotted Owl AEI 11
3.2 Location and Number of Mexican Spotted Owl AEIs 12
4.0 AEI Management 12
4.1 Overview 12
4.2 Definition and Role of Occupancy in AEI Management 12
4.3 Introduction to AEI Management Guidelines 13
4.4 Definition of and Restrictions on Habitat Alterations 13
4.5 Definition of and Restrictions on Disturbance Activities 15
4.6 Protective Measures 17
5.0 Allowable Habitat Alteration in the Buffer Areas 18
III. AREA OF ENVIRONMENTAL INTEREST SITE PLAN FOR THE SOUTHWESTERN WILLOW FLYCATCHER 20
1.0 Species Description—Southwestern Willow Flycatcher 20
1.1 Status 20
1.2 General Biology 20
1.3 Threats 21
2.0 Impact of Human Activities 21
2.1 Introduction 21
2.2 Impacts on Habitat Quality 21
3.0 AEI General Description for the Southwestern Willow Flycatcher 23
3.1 Method for Identifying the Southwestern Willow Flycatcher AEI 23
3.2 Location of the Southwestern Willow Flycatcher AEI 23
4.0 AEI Management 23
4.1 Overview 23

4.2 Definition and Role of Occupancy in AEI Management 23
4.3 Introduction to AEI Management Guidelines 24
4.4 Definition of and Restrictions on Habitat Alterations 24
4.5 Definition of and Restrictions on Disturbance Activities 25
4.6 Protective Measures 27
5.0 Southwestern Willow Flycatcher AEI Description 27
5.1 Pajarito Canyon Southwestern Willow Flycatcher AEI 27
IV. AREA OF ENVIRONMENTAL INTEREST SITE PLAN FOR THE JEMEZ MOUNTAINS SALAMANDER 29
1.0 Species Description—Jemez Mountains Salamander 29
1.1 Status 29
1.2 General Biology 29
1.3 Threats 29
2.0 Impact of Human Activities 30
2.1 Introduction 30
2.2 Impacts on Habitat Quality 30
2.3 Impacts on Individual Salamanders 30
3.0 AEI General Description for the Jemez Mountains Salamander 31
3.1 Method for Identifying a Jemez Mountains Salamander AEI 31
3.2 Location and Number of Jemez Mountains Salamander AEIs 32
4.0 AEI Management 32
4.1 Overview 32
4.2 Definition and Role of Occupancy in AEI Management 33
4.3 Definition and Role of Developed Areas in AEI Management 33
4.4 General Description of Core and Buffer Areas and Allowable Area Development 33
4.5 Emergency Actions 33
4.6 Introduction to AEI Management Guidelines 33
4.7 Definition of and Restrictions on Habitat Alterations 34
V. ACRONYMS AND ABBREVIATIONS V-1
VI. REFERENCES CITED VI-2
Appendix A: Supplemental Information A-1

Figures

Figure I-1. Process flowchart for determining site plan requirements 3
Figure A-1. Most recent map of all AEIs at LANL A-2

Tables

Table II-1. Restrictions on Activities in Undeveloped Occupied Mexican Spotted Owl AEIs 17
Table III-1. Restrictions on Activities in Undeveloped Occupied 27
Table A-1. Percentage of Each Food Type Found in Mexican Spotted Owl Food Remains at LANL A-1
Table A-2. Preliminary Light Measurements (in fc) for the Mexican Spotted Owl Site Plan A-1

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.

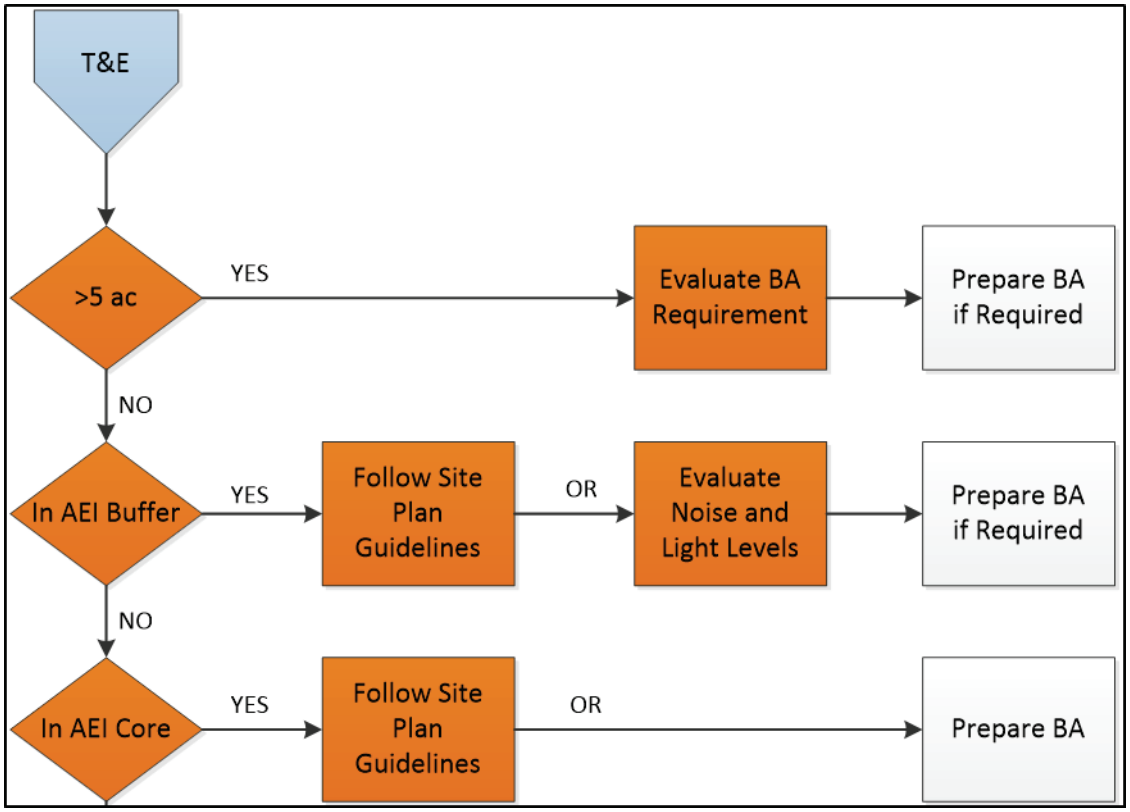


Figure I-1. Process flowchart for determining site plan requirements

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 delimbed 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

- 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:

- 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 indictor 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

VI. REFERENCES CITED

Allison, L. J., C. E. Paradzick, J. W. Rourke, and T. D. McCarthey. 2003. A characterization of vegetation in nesting and non-nesting plots for southwestern willow flycatchers in central Arizona. *Studies in Avian Biology* 26:81–90.

Brown, B. T., G. S. Mills, C. Powels, W. A. Russell, G. D. Therres, and J. J. Pottie. 1999. The influence of weapons-testing noise on bald eagle behavior. *Journal of Raptor Research* 33:227–32.

Brown, B. T. and L. E. Stevens. 1997. Winter bald eagle distribution is inversely correlated with human activity along the Colorado River, Arizona. *Journal of Raptor Research* 31:7–10.

Burns, M. J. 1995. White Rock noise measurements during PHERMEX tests, 11 March 1995. Los Alamos National Laboratory Memorandum DX-DO:DARHT-95-31 and 35.

Cain, B. W. 1988. The impact of environmental contaminants on Southwestern USA raptors. *Proceedings of the Southwest Raptor Management Symposium and Workshop* (ed) by R.L. Glinski, B.G. Pendleton, M.B. Moss, M.N. LeFranc Jr., B.A. Millsap & S.W. Hoffman, 348–54. Tucson, AZ, USA, May 21–24, 1986: National Wildlife Federation, Washington, D.C., USA.

Cummer, M. R., D. E. Green, and E. M. O'Neill. 2005. Aquatic chytrid pathogen detected in terrestrial plethodontid salamander. *Herpetological Review* 36(3):248–249.

Degenhardt, W. G., C. W. Painter, and A. H. Price. 1996. Amphibians and reptiles of New Mexico. University of New Mexico Press, Albuquerque, New Mexico.

Delaney, D. K., T. G. Grubb, P. Beier, L. L. Pater, and M. H. Reiser. 1999. Effects of helicopter noise on Mexican spotted owls. *Journal of Wildlife Management* 63:60–76.

Department of Energy (DOE). 1996. Final environmental impact statement for the dual-axis radiographic hydrodynamic test facility mitigation action plan. DOE/EIS-0228.

Durst, S. L., M. K. Sogge, H. C. English, S. O. Williams, B. E. Kus, and S. J. Sferra. 2006. Southwestern Willow Flycatcher breeding site and territory summary – 2005. USGS Southwest Biological Science Center report to the U.S. Bureau of Reclamation.

Durst, S. L., T. C. Theimer, E. H. Paxton, and M. K. Sogge. 2008. Age, habitat, and yearly variation in the diet of a generalist insectivore, the southwestern willow flycatcher. *Condor* 110:514–25.

Environmental Protection Agency (EPA). 2010. National pollutant discharge elimination system storm water individual permit number NM0030759.

Evans, A. M., R. G. Everett, S. L. Stephens, and J. A. Youtz. 2011. Comprehensive fuels treatment practices guide for mixed conifer forests: California, Central and Southern Rockies, and the Southwest. Forest Guild, Santa Fe, NM.

Everett, E. 2003. Habitat Characterization and Environmental Influences of the Jemez Mountains Salamander (*Plethodon neomexicanus*). M.S. Thesis, New Mexico State University, Las Cruces, New Mexico, 55pp.

Finch, D. M. and J. F. Kelly. 1999. Status and migration of the southwestern willow flycatcher in New Mexico, *In* Rio Grande Ecosystems: Linking Land, Water, and People: Toward a Sustainable Future for the Middle Rio Grande Basin (ed.) D.M. Finch, J.C. Whitney, J.F. Kelly & S.R. Loftin, 197–203, Rocky Mountain Research Station Proceedings P-7, Albuquerque, New Mexico.

Fresquez, P. R., C. Hathcock, D. Keller, and J. Fair. 2013. Foodstuffs and Biota Monitoring, *In* the 2012 Annual Site Environmental Report 2012. Los Alamos National Laboratory report LA-UR-13-27065.

References Cited

Gallegos, A., G. Gonzales, K. Bennett, and L. Pratt. 1997. Preliminary risk assessment of the Mexican Spotted Owl under a spatially-weighted foraging regime at the Los Alamos National Laboratory. Los Alamos National Laboratory report LA-13259-MS.

Ganey, J. L. and R. P. Balda. 1994. Habitat selection by Mexican spotted owls in northern Arizona. *Auk* 111:162–69.

Gonzales, G. J., A. F. Gallegos, K. D. Bennett, M. A. Mullen, and T. S. Foxx. 1998. Preliminary risk assessment of the Southwestern Willow Flycatcher (*Empidonax traillii extimus*) at the Los Alamos National Laboratory. Los Alamos National Laboratory report LA-13508-MS.

Gonzales, G., R. Ryti, P. Newell, A. Gallegos, and S. Sherwood. 2004. Modeled ecological risk to the Deer Mouse, Mexican Spotted Owl, and Western Bluebird at the Los Alamos National Laboratory using ECORSK.7. Los Alamos National Laboratory report LA-14118.

Gonzales, G., P. Gallegos, A. Gallegos, and K. Bennett. 2009. Site-wide application of ECORSK.9 at the Los Alamos National Laboratory. Los Alamos National Laboratory report LA-UR-09-02833.

Grubb, T. G. and R. M. King. 1991. Assessing human disturbance of breeding bald eagles with classification tree models. *Journal of Wildlife Management* 55:500–11.

Grubb, T. G. and W. W. Bowerman. 1997. Variations in breeding bald eagle responses to jets, light planes, and helicopters. *Journal of Raptor Research* 31:213–22.

Hansen, L. A. 2004. Sigma Mesa Construction Debris Recycling Project. Los Alamos National Laboratory Memorandum RRES/Ecol-04-0049.

Hansen, L. A. 2005. A biological assessment of the potential effects of the operation of an asphalt batch plant and a rock crusher at Sigma Mesa on federally listed threatened and endangered species. Los Alamos National Laboratory report LA-CP-05-0293.

Hansen, L. A. 2009. Sound studies of the biosciences laboratory (BSL) in TA-3. Los Alamos National Laboratory report LA-UR-09-05482.

Hathcock, C. D. and T. K. Haarmann. 2008. Development of a predictive model for habitat of the Mexican spotted owl in Northern New Mexico. *Southwestern Naturalist* 53:34–38.

Hathcock, C. D., L. A. Hansen, and D. C. Keller. 2010. Occupancy of habitats by Mexican spotted owl in relation to explosives noise and recreational access at Los Alamos National Laboratory. *Western Birds* 41:102–06.

Hatten, J. R. and C. E. Paradzick. 2003. A multiscaled model of southwestern willow flycatcher breeding habitat. *Journal of Wildlife Management* 67:774–88.

Holthuijzen, A. M. A., W. G. Eastland, A. R. Ansell, M. N. Kochert, R. D. Williams, and L. S. Young. 1990. Effects of blasting on behavior and productivity of nesting prairie falcons. *Wildlife Society Bulletin* 18:270–81.

Huchton, K., S. W. Koch, and R. J. Robinson. 1997. An analysis of background noise in selected canyons of Los Alamos County. Los Alamos National Laboratory report LA-13372-MS.

Johnson, J. A. and T. H. Johnson. 1985. Timber type model of spotted owl habitat in northern New Mexico. New Mexico Department of Game and Fish report, Santa Fe, New Mexico.

Johnson, T. H. 1994. Peregrine falcon habitat management in the national forests of New Mexico. USDA Forest Service unpublished report.

Johnson, T. H. 1998. Topographic-Landsat model of suitable spotted owl habitat around Los Alamos National Laboratory. Los Alamos National Laboratory unpublished report.

References Cited

Keller, D. C. 2015. Biological assessment for the addition of the western distinct population segment of the Yellow-billed Cuckoo and the New Mexico Meadow Jumping Mouse to the Los Alamos National Laboratory Habitat Management Plan. Los Alamos National Laboratory report LA-UR 15-23445.

Keller, D. C. and D. Risberg. 1995. Biological and floodplain/wetland assessment for the Dual-Axis Radiographic Hydrodynamics Test Facility (DARHT). Los Alamos National Laboratory report LA-UR-95-647.

Keller, D. C. and T. S. Foxx. 1997. Biological assessment for threatened and endangered species at the DP Road Tract land transfer. Los Alamos National Laboratory unpublished report.

Knight, J. L. and S. S. Vrooman. 1999. A study of construction machinery noise levels at Los Alamos National Laboratory. Los Alamos National Laboratory report LA-UR-99-5740.

Los Alamos Area Office (Department of Energy) (LAAO). 2000. Environmental assessment for the Wildfire Hazard Reduction and Forest Health Improvement Program at Los Alamos National Laboratory, Los Alamos, New Mexico. DOE-EA-1329.

Los Alamos National Laboratory (LANL). 2019. Section G4010 - Site Electrical Distribution. LANL Engineering Standards Manual STD-342-100.

Los Alamos National Laboratory (LANL). 2020. Biological assessment of the potential effects from the construction of two office buildings within Technical Area 35 at Los Alamos National Laboratory. Los Alamos National Laboratory report LA-CP-20-20513.

Los Alamos National Laboratory (LANL). 2021. Environmental Management System, Los Alamos National Laboratory System Description 400, Revision 5.

McKown, B., S. W. Koch, R. G. Balice, and P. Neville. 2003. Land Cover Classification Map for the Eastern Jemez Region. Los Alamos National Laboratory report LA-14029.

New Mexico Department of Game and Fish (NMDGF), April 2006. Threatened and Endangered Species of New Mexico—2006 Draft Biennial Review and Recommendations.

Paakkonen, R. 1991. Low-frequency noise impulses from explosions. *Journal of Low Frequency Noise & Vibration* 10:78–82.

Pounds, J. A., M. R. Bustamante, L. A. Coloma, J. A. Consuegra, M. P. L. Fogden, P. N. Foter, E. La Marca, K. L. Masters, A. Merino-Viteri, R. Puschendorf, S. R. Ron, G. A. Sanchez-Azofeifa, C. J. Still, and B. E. Yound. 2006. Widespread amphibian extinctions from epidemic disease driven by global warming. *Nature* 439(7073):161–167.

Ramotnik, C. A. 1986. Status Report: *Plethodon neomexicanus* Jemez Mountains Salamander. U.S. Fish and Wildlife Service Report.

Reilly, E. C., D. Clayton, R. S. Nauman, D. H. Olson, H. H. Welsh Jr, B. Devlin. 2009. Spatial model of optimal habitat for the Siskiyou Mountains Salamander (*Plethodon stormi*) north of the Siskyou Crest. Chapter 2. *In:* Olson, D. H., D. Clayton, R. S. Nauman, and H. H. Welsh Jr (Editors). 2009. Conservation of the Siskiyou Mountains Salamander (*Plethodon stormi*). *Northwest Fauna* 6:1–73.

Stebbins, R. C. and W. J. Riemer. 1950. A new species of Plethodontid Salamander from the Jemez Mountains of New Mexico. *Copeia* 1950(2):73–80.

Steidl, R. J. and R. G. Anthony. 2000. Experimental effects of human activity on breeding bald eagles. *Ecological Applications* 10:258–68.

Swarthout, E. C. H. and R. J. Steidl. 2001. Flush responses of Mexican spotted owls to recreationists. *Journal of Wildlife Management* 65:312–17.

Swarthout, E. C. H. and R. J. Steidl. 2003. Experimental effects of hiking on breeding Mexican spotted owls. *Conservation Biology* 17:307–15.

U.S. Fish and Wildlife Service (USFWS). 1995. Recovery plan for the Mexican spotted owl. Albuquerque, New Mexico.

U.S. Fish and Wildlife Service (USFWS). 2002. Southwestern willow flycatcher recovery plan. Albuquerque, New Mexico.

U.S. Fish and Wildlife Service (USFWS). 2012. Recovery plan for the Mexican Spotted Owl, First Revision. Albuquerque, New Mexico.

Vigil, E. A. 1995. Noise measurements at State Road 4 and Bandelier turn-off at State Road 4 during PHERMEX test on March 11, 1995. Los Alamos National Laboratory Memorandum ESH-5:95-11825.

Vrooman, S. S., S. W. Koch, and J. L. Knight. 2000. Temporal and spatial variation in background noise levels at Los Alamos National Laboratory. Los Alamos National Laboratory report LA-13684-MS.

Wiesenborn, W. D. and S. L. Heydon. 2007. Diets of breeding southwestern willow flycatchers in different habitats. *Wilson Journal of Ornithology* 119:547–57.

Willey, D. W. 2013. Diet of Mexican Spotted Owls in Utah and Arizona. *The Wilson Journal of Ornithology* 125(4):775–781.

Yong, W. and D. M. Finch. 1997. Migration of the willow flycatcher along the middle Rio Grande. *Wilson Bulletin* 109:253–68.

Appendix A: Supplemental Information

Table A-1. Percentage of Each Food Type Found in Mexican Spotted Owl Food Remains at LANL

Species	Relative Abundance
Neotoma spp.	26.22
Peromyscus spp.	10.22
Microtus 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

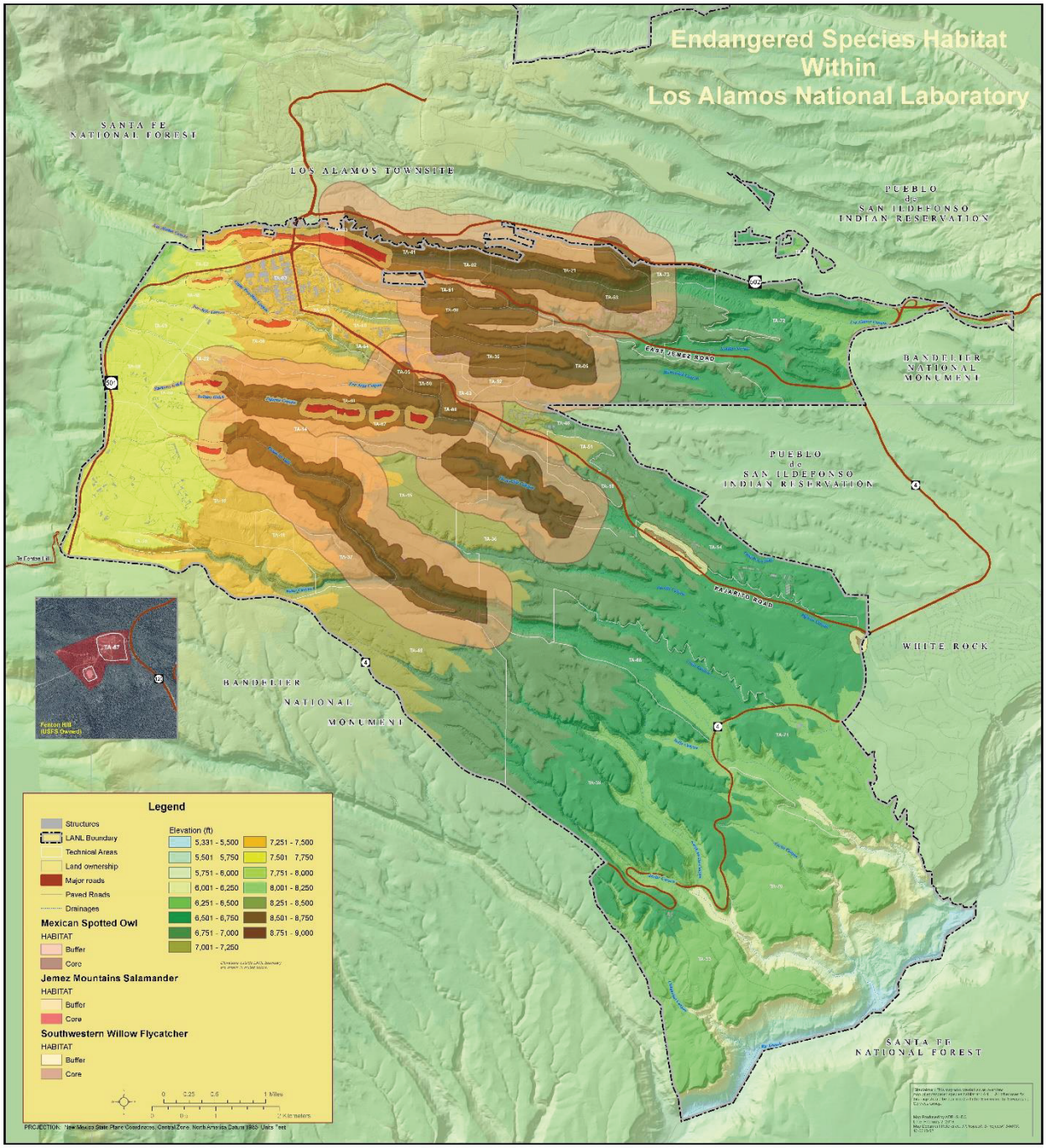


Figure A-1. Most recent map of all AEIs at LANL

ATTACHMENT 14: MSGP IPAC TRUST RESOURCES REPORT

IPaC Information for Planning and Consultation **U.S. Fish & Wildlife Servi**

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.

NOT FOR CONSULTATION

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 species[1] 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 Fisheries[2]).

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

NOT FOR CONSULTATION

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
New Mexico Meadow Jumping Mouse Zapus hudsonius luteus 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	Endangered

Birds

NAME	STATUS
Mexican Spotted Owl Strix occidentalis lucida Wherever found There is **final** critical habitat for this species. Your location overlaps the critical habitat. https://ecos.fws.gov/ecp/species/8196	Threatened
Southwestern Willow Flycatcher Empidonax traillii extimus 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	Endangered
Yellow-billed Cuckoo Coccyzus americanus There is **proposed** critical habitat for this species. The location of the critical habitat is not available. https://ecos.fws.gov/ecp/species/3911	Threatened

Amphibians

NAME	STATUS

NOT FOR CONSULTATION

Jemez Mountains Salamander Plethodon neomexicanus 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	Endangered

Fishes

NAME	STATUS
Rio Grande Silvery Minnow Hybognathus amarus 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 Strix occidentalis lucida https://ecos.fws.gov/ecp/species/8196#crithab	Final

NOT FOR CONSULTATION

Migratory birds

Certain birds are protected under the Migratory Bird Treaty Act[1] and the Bald and Golden Eagle Protection Act[2].

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.

NOT FOR CONSULTATION

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

NOT FOR CONSULTATION

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

NOT FOR CONSULTATION

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 (–)

NOT FOR CONSULTATION

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.

NOT FOR CONSULTATION

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.

NOT FOR CONSULTATION

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.

NOT FOR CONSULTATION

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

NOT FOR CONSULTATION

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 tuberficid 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: **2**	Los Alamos NATIONAL LABORATORY
Effective Date: 04/26/2023	Next Review Date: 04/26/2026	

Environment, Safety, Health, and Quality Directorate

Environmental Protection and Compliance Division – Compliance Programs Group

Program Implementation Plan (PIP)

NPDES Multi-Sector General Permit

Document Owner/Subject Matter Expert:

Name:	Organization:	Signature:	Date:
Holly L. Wheeler	EPC-CP	Signature on File	04-20-2023

Derivative Classifier: ☒ **Unclassified or** ☐ _____

Name:	Organization:	Signature:	Date:
Steven E. Wolfel	EPC-CP	Signature on File	04-20-2023

Approval Signatures:

EPC-CP Reviewer:	Organization:	Signature:	Date:
Alethea Banar	EPC-CP	Signature on File	04-20-2023
Responsible Line Manager:	Organization:	Signature:	Date:
Terrill W. Lemke, Team Leader	EPC-CP	Signature on File	04-21-2023
Responsible Line Manager:	Organization:	Signature:	Date:
Steven L. Story, Group Leader	EPC-CP	Signature on File	04-26-2023

This copy is uncontrolled.
Users are responsible for ensuring they work to the latest approved version.
To document a required read, Login to UTrain, and go to the Advanced Search.

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.
EPC-CP-PIP-2101 R2	04/26/2023	This revision includes reintegration of training and qualifications into PIP. Expanded Section 4.2 to add subsections 4.2.1 MSGP Program Training with Table 4.2.1, 4.2.2 MSGP Program Qualifications, and 4.2.3 Certifications. Removed Appendix A. This document, EPC-CP-PIP-2101 R2, supersedes/replaces EPC-CP-PIP-2101 R1, EPC-CP-QS-2005, EPC-CP-QS-006, and EPC-CP-QS-2007.

Table of Contents

Table of Contents 3
1.0 Purpose 5
2.0 Authority and Applicability 5
2.1 Authority 5
2.2 Applicability 5
3.0 Program Scope 5
3.1 Requirements 5
3.2 Description of Work Activities 6
3.3 Graded Approach 6
3.3.1 Management Level Determination 6
3.3.2 Software Risk Levels 6
4.0 Program-Specific Quality Assurance Requirements and Implementing Work Activities 6
4.1 Criterion 1 – Management/Program 6
4.1.1 Program Goals 6
4.1.2 Roles and Responsibilities 7
4.1.2.1 Group Leader 7
4.1.2.2 Stormwater Permitting/Compliance Team Leader 7
4.1.2.3 MSGP Program Lead 8
4.1.2.4 Storm Water Tracking System/Discharge Monitoring Report Manager 9
4.1.2.5 MSGP Personnel 9
4.1.2.6 EIM Database Administrator 10
4.1.2.7 Corrective Action Reporting Database Administrator 10
4.1.2.8 Maintenance Connection Database Administrator 10
4.1.3 Internal Interfaces 11
4.1.3.1 Facility Operations Directors 11
4.1.3.2 Permitted Industrial Activity Facility Owner/Operator 11
4.1.3.3 Deployed Environmental Professional 11
4.1.3.4 Sample Management Office (SMO) 11
4.1.4 External Interfaces 12
4.1.4.1 Environmental Protection Agency 12
4.1.4.2 New Mexico Environmental Department 12
4.1.4.3 National Nuclear Safety Administration/Los Alamos Field Office 12
4.1.4.4 Analytical Laboratory Contractors 12
4.2 Criterion 2 – Management/Personnel Training and Qualification 13
4.2.1 MSGP Program Training 13
4.2.2 MSGP Program Qualifications 14
4.2.3 Certifications 16
4.3 Criterion 3 – Management/Quality Improvement 16
4.3.1 Performance Reporting 16
4.3.2 Corrective Actions 16
4.4 Criterion 4 – Management/Documents and Records 17

4.4.1 Document Control....17
4.4.2 Procedures....17
4.4.3 Electronic Media....17
4.4.4 Records Management....18
4.5 Criterion 5 – Performance/Work Processes....19
4.5.1 Work Processes....20
4.5.2 Stormwater Pollution Prevention Plans....20
4.5.3 Inspections....20
4.5.4 Stormwater Corrective Actions....21
4.5.4.1 Permit Limit Exceedances....21
4.5.5 Stormwater Monitoring....21
4.5.5.1 Quality Control Samples....23
4.5.6 Reporting....24
4.5.6.1 Discharge Monitoring Reports....24
4.5.6.2 Annual Reports....25
4.6 Criterion 6 – Performance/Design....25
4.7 Criterion 7 – Performance/Procurement....26
4.8 Criterion 8 – Performance/Inspection and Acceptance Testing....26
4.9 Criterion 9 – Assessment/Management Assessment....26
4.10 Criterion 10 – Assessment/Independent Assessment....26
4.11 Suspect/Counterfeit Items Prevention....26
4.12 Safety Software Quality Assurance Requirements for Nuclear Facilities....27
5.0 Implementation....27
6.0 Training....27
7.0 Documents and Records....27
8.0 Definitions and Acronyms....27
9.0 References....28
10.0 Appendices....30
11.0 Attachments....30
12.0 Contact Information....30
Attachment 1: Summary of QA Requirements and Program-Level (Local) Work Practices....31
Attachment 2: MSGP Facilities Associated with Industrial Activities....34

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*

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 Stormwater 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:

- 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.

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, 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 Stormwater 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 EPC-CP-QAP-001, *Environmental Compliance Programs Quality Assurance Plan*.
- Conduct periodic reviews of records and documentation for accuracy, applicability, and compliance.

- 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 Stormwater 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, environmenal protection, or other improvements of the program's operations.
- Ensure deficiencies are reported to the Stormwater 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.

- 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 Stormwater 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 Stormwater 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.

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.
- Oversee shipping/transport of samples to the correct off-site analytical laboratory for analysis.
- Oversee administration and maintenance of sampling plans and sample documentation.
- Load analytical data into the EIM database and run auto-validation checks.
- Oversee management of 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 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 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 is 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 Stormwater 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.* All personnel performing program related work are required to obtain appropriate training before preforming work governed by a procedure. The Stormwater Permitting/Compliance Team Leader assigns minimum training requirements using a training plan which will be assigned and tracked using the training management system, UTrain. The Triad Human Resources Division maintains documentation of education qualifications.

4.2.1 MSGP Program Training

Table 4.2.1 provides a summary of training requirements for MSGP Program personnel.

Table 4.2.1 Management/Personnel Training

Key Personnel/Role	Task Description	Curriculum or Course Number
Stormwater Program Lead and MSGP Inspectors	Duty Area: NPDES Permit Knowledge	
	EPC-CP-PIP-2101, NPDES Multi-Sector General Permit	Course 28267
	EPC-CP-QAP-001, EPC-CP Quality Assurance Plan	Course 44842
	Duty Area: Inspection Procedures	
	EPC-CP-QP-0903, Environmental Reporting Requirements for Releases or Events	Course 42415
	EPC-CP-TP-2102, Installing, Setting Up, and Operating ISCO Samplers	Course 55962
	EPC-CP-TP-2103, Inspecting ISCO Stormwater Runoff Samplers and Retrieving Samples	Course 56594
	EPC-CP-QP-2104, Installing, Inspecting, and Maintaining MSGP Single Stage Samplers	Non_Train 42638
	EPC-CP-QP-2105, MSGP Stormwater Visual Assessments	Course 50493
	EPC-CP-QP-2106, Processing MSGP Stormwater Samples	Course 56595
	EPC-CP-QP-2108, MSGP Routine Facility Inspections	Course 42609
	EPC-CP-QP-2109, MSGP Corrective Actions	Course 54892
	EPC-CP-QP-3020, Sample Control and Field Documentation	Course 47729

	EPC-CP-QP-3027, Sample Containers, Preservation, and Field Quality Control Samples	Course 48007
	Chemical Hazard Communication	Course 25997
	Excavation/Fill/Soil Disturbance Self-Study	Course 31419
	LANL Excavation/Fill/Soil Disturbance (EXID) Permit Process Using the EXID Request System	Course 47420
	IRT GIS Mapping Training	Course 46181
	Duty Area: General Field Safety	
	EPC-DO-QP-100, General Field Safety	Course 45777
	P300 Integrated Work Management	Course 48233
	P101-7 Vehicle and Pedestrian Safety	Course 57060
	Duty Area: Electrical Safety Field	
	Electrical Safety Program at LANL	Course 33215
	R&D Electrical Safety - Energized	Course 38710
	Battery Safety	Course 16745
	First Aid: Standard	Course 3574
	CPR/AED: LANL Workplace	Course 43562
Stormwater Pollution Prevention Plan Preparer	Duty Area: NPDES Permit Knowledge	
	EPC-CP-PIP-2101, NPDES Multi-Sector General Permit	Course 28267
	EPC-CP-QAP-001, EPC-CP Quality Assurance Plan	Course 44842
	Duty Area: Knowledge of applicable EPC-CP Plans and Procedures	
	EPC-CP-QP-2110, MSGP Stormwater Pollution Prevention Plan Preparation and Maintenance	RR 48269
Storm Water Tracking System/Discharge Monitoring Report Manager	Duty Area: NPDES Permit Knowledge	
	EPC-CP-PIP-2101, NPDES Multi-Sector General Permit	Course 28267
	EPC-CP-QAP-001, EPC-CP Quality Assurance Plan	Course 44842
	Duty Area: Knowledge of applicable EPC-CP Plans and Procedures	
	EPC-CP-QP-2107, Preparing Discharge Monitoring Reports for the NPDES Multi-Sector General Permit	Course 56593

4.2.2 MSGP Program Qualifications

General Qualifications

- Experience in the principles and practices of industrial stormwater controls and pollution prevention.
- Two years of experience completing MSGP inspections **OR** one year inspection experience with a Certified Professional in Erosion and Sediment Control (CPESC) certification.
- Certified Inspector of Sediment and Erosion Control (CISEC) certification.

MSGP Inspector Qualifications

- Demonstrated ability, as determined by the Program Lead and/or Stormwater Permitting and Compliance Team Leader, to successfully and effectively evaluate, and identify the following at permitted sites:
  - Appropriate and correct site stabilization measures,
  - Appropriate SCM selection to manage erosion and sedimentation,
  - Effectiveness of stormwater control measures selected and installed to meet the requirements of the permit,
  - Inadequate or ineffective SCMs,
  - Required modification or maintenance of existing SCMs,
  - Locations requiring new or additional SCMs,
  - All industrial, construction, or pollutant generating activity areas identified in the Stormwater Pollution Prevention Plan; and required to be evaluated by the MSGP,
  - Conditions and activities that may impact stormwater quality at a permitted site,
  - Potential pollutant sources, and
  - Stormwater Pollution Prevention Plan and supporting documentation.
- Demonstrated ability, as determined by the Program Lead and/or Stormwater Permitting and Compliance Team Leader, to properly and effectively complete inspection reports, including the following:
  - Conduct inspections in a professional manner,
  - Provide recommendations for new controls, or replacement or modification of existing controls,
  - Prepare reports, describe site conditions and issues, and document conditions requiring corrective action clearly and accurately,
  - Use proper spelling and grammar and write legibly,
  - Complete inspection form(s) accurately, and
  - Accurately enter findings into the appropriate programmatic database.

MSGP SWPPP Preparer Qualifications

- Demonstrated ability, as determined by the Program Lead and/or Stormwater Permitting and Compliance Team Leader to:
  - Prepare SWPPPs per LANL format and in compliance with MSGP requirements.
  - Assess conditions at an industrial facility that could impact stormwater quality.

- Identify and specify appropriate SCMs and stabilization measures.
- Assess the effectiveness of stormwater controls selected and installed to meet the requirements of the permit.
- Perform necessary calculations to meet regulatory requirements.
- Prepare a site map.
- Identify potential pollutant sources associated with a site.

MSGP Stormwater Design Reviewer Qualifications

Must meet one of the following:

- Education in civil or environmental engineering.
- Experience with design reviews with a demonstrated background in stormwater management, sediment and erosion control, regulatory compliance, and experience with the LANL engineering standards and related engineering calculations.
- CPESC professional certification and experience reviewing design packages.

4.2.3 Certifications

MSGP personnel will, at a minimum, obtain a CISEC certification. CISEC and CPESC certifications are obtained from an entity outside of LANL. Each certification involves the successful completion of a classroom training and exam. CISEC and CPESC certifications will be recertified using the process and frequency determined by the entity the certification was obtained from (e.g., annually with completed professional development hours).

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.

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,* EPC-CP-QAP-001, *EPC-CP 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 policies and practices (P1020-2, *Laboratory 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 EPC-CP-QAP-001, *EPC-CP Quality Assurance Plan*, ESHQSS-AP-007, *ESHQSS Document Control Procedure*, and EPC-CP-QP-0901, *EPC-CP Quality Procedure to Supplement ESHQSS-AP-007, ESHQSS Document Control Procedure*.

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 them.

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 P1020-1, *Laboratory Records Management* and ESH-AP-006, *Records Management Procedure*. The Stormwater 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
- QA documents
- General correspondence that affects the program (e.g., phone calls, emails, and log entries that provide directions or results in decisions)
- Applicable Integrated Work Documents (IWDs)

- General MSGP compliance documents (correspondence with regulators and stakeholders, notice of change conditions, etc.)

Analytical data packages are stored in the Electronic Document and Records Management system (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.

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.*

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 discharge points 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 to 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 Permit Limit Exceedances

Federal stormwater regulations implemented under the Laboratory's MSGP require corrective action to be taken when an exceedance of permit limits (i.e., numeric effluent limitations, or an AIM triggering event) occurs. The identification of a pollutant source(s) contributing to a permit limit exceedance is addressed through the creation of a condition requiring corrective action 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 permit limit exceedance occurs, the Storm Water Tracking System/Discharge Monitoring Report Manager assures the analytical data is reviewed and submitted on the required DMR. The Program Lead enters exceedances in the MSGP CAR database. DEPs, and other SWPPP team members then investigate the occurrence, implement corrective action and document all corrective actions taken.

Impaired waters constituents and indicator parameters are documented on DMRs as report only.

4.5.5 Stormwater Monitoring

The MSGP requires stormwater monitoring to address four separate criteria: quarterly benchmark, indicator parameters, numeric 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 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 and indicator parameter monitoring is used to determine the effectiveness of stormwater controls. 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). Indicator parameter monitoring is conducted quarterly throughout the permit term for pH, Chemical Oxygen Demand and Total Suspended Solids. For a Sector D facility (i.e., the Asphalt Batch Plant) Polycyclic Aromatic Hydrocarbons, which are also considered indicator parameters, are monitored semi-annually in year 1 and year 4 of permit coverage. 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.

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*,
- EPC-CP-QP-2104, *Installing, Inspecting, and Maintaining MSGP Single Stage Samplers,* and
- EPC-CP-QP-2106, *Processing MSGP Stormwater Samples*.

Table 4.5.5-1. Chain of Custody

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:

- **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 Samples*.

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 may submit the DMRs for NPDES Permits. NetDMR roles and permissions for these functions are described on the EPA NetDMR Streamlined Registration (https://npdes-ereporting.epa.gov/net-netdmr/).

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:

- Permit information,
- Facility information,
- 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
- Certification information.

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*
- 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.

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 Stormwater 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)*.

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 is 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

EPC-CP is the Office of Record for this document that must be maintained in accordance with PD1020, *Document Control and Records Management;* ESHQSS-AP-007, *ESHQSS Document Control Procedure*; 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*.

AIM	Additional Implementation Measure
BMP	Best Management Practice
CDX	Central Data Exchange
CFR	Code of Federal Regulations
CISEC	Certified Inspector of Sediment and Erosion Control
CPESC	Certified Professional in Erosion and Sediment Control
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 or Laboratory	Los Alamos National Laboratory
LLV	List of Limited Value
MOV	Management Observation and Verification
MSGP	Multi-Sector General Program
NeT	NPDES eReporting Tool
NMAC	New Mexico Administrative Code
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
QC	Quality Control
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 and Intrastate 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*

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 W*ork

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*

ESHQSS-AP-007, *ESHQSS Document Control Procedure*

EPC-DO-QP-100, *General Field Safety*

EPC-CP-QAP-001, *EPC-CP Quality Assurance Plan*

EPC-CP-QP-0901, *EPC-CP Quality Procedure to Supplement ESHQSS-AP-007, ESHQSS Document Control Procedure*

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*

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*

10.0 APPENDICES

None.

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 Stormwater Permitting/Compliance Team Leader
Name: Terrill W. Lemke
Telephone: (505) 665-2397
E-mail: tlemke@lanl.gov

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, *Integrated Safety Management System Description* PD100, *DOE/NNSA Approved Los Alamos National Laboratory* 10 CFR 851, *Worker Safety and Health Program*	EPC-CP organization chart EPC-DO-QP-100 EPC-CP-IWD-2102
CRD Attach. 2, 2. Criterion 2 – Management/Personnel Training and Qualification	PD781, *Training Program Management* P1040, *Software Quality Management* P781-1, *Conduct of Training*	EPC-CP-QAP-001
CRD Attach. 2, 3. Criterion 3 – Management/Quality Improvement	P101-18, *Procedure for Pause/Stop Work* PD322-4, *Issues Management* PD324, *LANL Metrics Program* P330-6, *Nonconformance Control and Reporting*	EPC-CP-QAP-001
CRD Attach. 2, 4. Criterion 4 – Management/Document and Records	PD1020, *Document Control and Records Management* P1020-1, *Laboratory Records Management* P1020-2, *Laboratory Document Control*	EPC-CP-QAP-001 ESH-AP-006 ESHQSS-AP-007 EPC-CP-QP-0901
CRD Attach. 2, 5. Criterion 5 – Performance/Work Processes	SD100, *Integrated Safety Management System Description Document with embedded 10 CFR 851 Worker Safety and Health Program* PD100, *DOE/NNSA Approved Los Alamos National Laboratory* *10 CFR 851 Worker Safety and Health Program Description* P151-1, *LANL Packaging and Transportation Program Procedure* PD311, *Requirements System and Hierarchy* SD330, *Los Alamos National Laboratory Quality Assurance Program* PD340, *Conduct of Engineering for Facility Work*;	EPC-CP-PIP-2101, *NPDES Multi-Sector General Permit Program Implementation Plan* EPC-CP-TP-2102, *Installing, Setting Up, and Operating ISCO Samplers* EPC-CP-TP-2103, *Inspecting ISCO Stormwater Runoff Samplers and Retrieving Samples* EPC-CP-QP-2104, *Installing, Inspecting, and Maintaining MSGP Single Stage Samplers*

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)**
	P315, *Conduct of Operations Manual* P330-2, *Control and Calibration of Measuring and Test Equipment (M&TE)* SD601, *Conduct of Research and Development* PD781, *Training Program Management* P1040, *Software Quality Management*	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* EPC-CP-QP-2108, *MSGP Routine Facility Inspections* EPC-CP-QP-2109, *MSGP Corrective Actions* EPC-CP-QP-2110, *MSGP Stormwater Pollution Prevention Plan Preparation and Maintenance*
CRD Attach. 2, 6. Criterion 6 – Performance/Design	<u>For Facility Work:</u> PD340, *Conduct of Engineering and Configuration Management for Facility Work* P341, *Facility Engineering Processes Manual* P342, *Engineering Standards;* Engineering Standards Manual; Functional Series documents; Engineering Administrative Procedures <u>For R&D:</u> PD370, *Conduct of Engineering for Research and Development (R&D)*	No local implementing procedures, LANL Work Practices apply.
CRD Attach. 2, 7. Criterion 7 – Performance/Procurement	P840-1, *Quality Assurance for Procurements*[1]	No local implementing procedures, LANL Work Practices apply.
CRD Attach. 2, 8. Criterion 8 – Performance/Inspection and Acceptance Testing	P330-8, *Inspection and Test*[3] P330-2, *Control and Calibration of Measuring and Test Equipment (M&TE)*	No local implementing procedures, LANL Work Practices apply.

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, *LANL Assessment Program* P328-3, *Management Assessment* P328-4, *Management Observation and Verification*	EPC-CP-QAP-001
CRD Attach. 2, 10. Criterion 10 – Assessment/Independent Assessment	PD328, *LANL Assessment Program* P328-2, *Independent Assessment* P328-4, *Management Observation and Verification*	No local implementing procedures, LANL Work Practices apply.
CRD Attach. 3, Suspect/Counterfeit Items Prevention	P330-9, *Suspect/Counterfeit Items (S/CI)*[1]	No local implementing procedures, LANL Work Practices apply.
CRD Attach. 4, Safety Software Quality Assurance Requirements for Nuclear Facilities[2]	P1040, *Software Quality Management*[2] Form 2033, *Safety Non-Safety Software Determination, Categorization, and Software Risk Level*	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*.

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-3-0038	TA-3-0038 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-60-0001	TA-60-0001 Heavy Equipment Yard	Motor Pool and Metal Shop	Vehicle maintenance and fabricated metal products	P1 and AA1	NM-9000.A_047	Sandia
TA-60-0002	TA-60-0002 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: **1**	Los Alamos NATIONAL LABORATORY
Effective Date: 11/21/2023	Next Review Date: 11/21/2026	

Environment, Safety, Health, and Quality 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: _____
Safety Basis:	☒ N/A	☐ USQ	☐ USI Number: _____

Document Author/Subject Matter Expert:

Name:	Organization:	Signature:	Date:
Holly L. Wheeler	EPC-CP	Signature on File	11-06-2023

Derivative Classifier: ☒ **Unclassified or** ☐ _____

Name:	Organization:	Signature:	Date:
Steven E. Wolfel	EPC-CP	Signature on File	11-06-2023

Approval Signatures:

EPC-CP Reviewer:	Organization:	Signature:	Date:
Alethea Banar	EPC-CP	Signature on File	11-06-2023
EPC-CP RLM:	Organization:	Signature:	Date:
Terrill W. Lemke, Team Leader	EPC-CP	Signature on File	11-20-2023
Responsible Line Manager:	Organization:	Signature:	Date:
Sarah Holcomb, Acting Group Leader	EPC-CP	Signature on File	11-21-2023

This copy is uncontrolled.
Users are responsible for ensuring they work to the latest approved version.
To document a required read, Login to UTrain, and go to the Advanced Search.

REVISION HISTORY

Document Number and Revision *[Include revision number, beginning with Revision 0]*	**Effective Date** *[Document Control Coordinator inserts effective date]*	**Description of Changes** *[List specific changes made since the previous revision]*
EPC-CP-QP-023 R0	05/17/2018	New Document. Process formerly part of procedure ENV-RCRA-QP-022 R2, *MSGP Corrective Actions*.
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.
EPC-CP-QP-2108 R1	11/21/2023	This document supersedes EPC-CP-QP-2108 R0. Reviewed and revised to the new 2021 MSGP language and requirements throughout procedure. Updated Attachment 1 w/ screen shots from ECMS software platform. Revised all Sections to match new inspection form and changed all references from Maintenance Connection to ECMS. Removed Section 2.5 DESH Manager (roles and responsibilities), removed Section 3.2 Limitations, and updated EPC-CP-QP-022 to EPC-CP-QP-2109.

Table of Contents

Revision History 2
1.0 Introduction 4
1.1 Purpose 4
1.2 Scope 4
1.3 Applicability 4
2.0 Roles and Responsibilities 4
2.1 EPC-CP MSGP Stormwater Permitting and Compliance Team 5
2.2 Deployed Environmental Professionals 5
2.3 EPC-CP Stormwater Permitting and Compliance Team Leader 6
2.4 EPC-CP Group Leader 6
3.0 Precautions and Limitations 6
4.0 Prerequisite Actions 7
4.1 Planning and Coordination 7
4.2 Special Tools, Equipment, Parts, and Supplies 7
5.0 MSGP Routine Facility Inspections 8
5.1 Conducting the Inspection 9
5.2 Completing the Inspection Form 11
5.3 Completing the Certification Statement 11
6.0 Training 12
7.0 Records 13
8.0 Definitions and Acronyms 13
8.1 Definitions 13
8.2 Acronyms 13
9.0 References 14
10.0 Attachments 14
Attachment 1: *MSGP Routine Facility Inspection* in ECMS 15

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-2109, *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 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 Triad National Security LLC (Triad), the management and operating contractor 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 Environmental Compliance Management System (ECMS) web application on a mobile phone, tablet, notebook, or desktop computer.

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 managed and operated by Triad.

2.0 ROLES AND RESPONSIBILITIES

Specific roles and responsibilities for implementation of requirements contained in this procedure are provided below.

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 is 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 Stormwater Control Measures (SCMs)),
- Training personnel to use ECMS main application and MyECMS mobile application,
- Performing a quality review of routine facility inspections and “no exposure” site inspections, and
- Assisting customers with issues associated with ECMS main application and MyECMS mobile application.

2.2 Deployed Environmental Professionals

DEPs are responsible for the following:

- Implementing this procedure,
- Being knowledgeable of the requirements contained in site-specific SWPPPs within their assigned Facility Operations Directorate (FOD),
- Meeting qualification requirements identified in EPC-CP-PIP-2101, NPDES *Multi-Sector General Permit Program Implementation Plan*,
- Being trained on EPC-CP-QP-2109, *MSGP Corrective Actions,*
- 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,

- 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 clearly and accurately,
- Acting as liaison between the FOD 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 SCMs have been installed or old SCMs 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 (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. The Group Leader or designee (i.e., Team Lead) may act 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.

3.0 PRECAUTIONS AND LIMITATIONS

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 inspection form. Multiple attempts can be documented on the original form. If the due date cannot be met, the field personnel must contact the Program Lead no less than 24 hours before the due date for guidance.

4.0 PREREQUISITE ACTIONS

4.1 Planning and Coordination

1. Schedule work to be completed by the due date associated with the inspection form or as requested by the MSGP Program Lead if an inspection form is not assigned.
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 Chrome or Firefox web browser on a mobile phone, tablet or notebook style computer, log into the MyECMS application (http://ecms-prod.lanl.gov/MyECMS/) **OR** the ECMS main application (http://ecms-prod.lanl.gov/ecms/) and confirm that the inspection list displayed matches your sites. If the inspection list does not match, contact EPC-CP Data Management personnel for clarification.
5. Click on an inspection to open the inspection form.
6. Click Save to save work in progress and final work. Do not click Submit in MyECMS until all entries have been checked for completeness and accuracy.
7. Always log out 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 (Cell phones are not allowed in Limited Areas or higher. See https://int.lanl.gov/policy/documents/P217.pdf for requirements for using portable electronic devices on Laboratory property.)
- LANL issued tablet, notebook or desktop computer with Chrome web browser and Blackberry work applications (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 map(s).
- Current inspection form(s).
- Necessary access keys.

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, most facilities 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,
- Control measures that need replacement, maintenance, or repair,
- Non-authorized non-stormwater discharges, and
- Erosion of soils at the site, channel and streambank erosion and scour in the immediate vicinity of discharge points.

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-2109, *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 must 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 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 must 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 R1 Form 1, *MSGP Routine Facility Inspection* in ECMS. The form can be filled out in the ECMS mobile application (http://ecms-prod.lanl.gov/MyECMS/) or the ECMS main application (http://ecms-prod.lanl.gov/ecms/). Work can be saved at any time by clicking the "Save" button at the top of the inspection form.

NOTE: Each item number listed in red font below corresponds to a red numbered box on the screenshot examples.

[1] **ITEM 1**: Observe the weather at time of inspection. Document the weather and temperature (e.g., Temp. 78°F, sunny, wind less than 5mph) in the text field.

[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 Comment field.

[3] **ITEM 3**:

IF the response to ITEM 2 is "Yes"
THEN answer this question as "N/A"

OR

IF the response to ITEM 2 is "No"
THEN answer this question 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 Comment field.

[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 Comment field.

[6] **ITEM 6**: Check the outfall for each of the following:

- Does not have any **new** evidence of erosion **since the last inspection**,
- Free of evidence of pollutants in the discharges and/or the Receiving Water,
- Free of unauthorized non-stormwater discharges.

Describe any observations in the Comment field.

[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 Comment field (e.g., repair berm, replace rip rap, etc.).

[8] Repeat Steps 6 through 7 for each outfall shown on the work order if the location has more than one outfall.

[9] **ITEM 8**: By comparing the MSGP site map to each SCM, click the box next to each control measure inspected. 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 Comment field.

[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.

[10] **ITEM 9**: Check each sector of NPDES specified industrial area/activity is inspected for exposure to stormwater (e.g., metal fabrication; foundry operations; asphalt production; 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 Comment field of the task line.

[c] For industrial activities that do not occur at the facility, select “N/A”.

NOTE: Unless the facility is entirely paved, it may have dust generation or tracking issues.

[11] Repeat Step 10 for each industrial area/activity shown on the work order if the facility has more than one sector of NPDES specified industrial area/activity.

[12] **ITEM 10**: Check the facility is free of any incidence of non-compliance not documented elsewhere on the inspection questionnaire. Describe any additional incidences of non-compliance in the Comment field of the task line.

[13] **ITEM 11**: Check the facility meets the MSGP requirements with existing control measures. Describe any additional control measures needed to comply with the Permit.

[14] **ITEM 12**: Additional notes, observations, or site conditions not documented in a question field above can be documented in the "Additional information" field.

[15] After all questions have been completed, click the "Save" button at the top of the page.

5.2 Completing the Inspection Form

See Attachment 1 for a screen shot example of completing EPC-CP-QP-2108 R1 Form 1 in ECMS.

[1] Ensure the inspection form has been filled out completely.

[2] **ITEM 13**: Click the Date Selector icon on the far right of the question. Select the date the **inspection was conducted** and ***not* the date the form was filled out**.

[a] IF work needs to be performed over multiple days,
THEN note the date and time the work began in the Additional information field (ITEM 12).

[3] **ITEM 14**: Document the time the inspection was conducted in the text field.

[4] **ITEM 15**: Click the magnifying glass icon on the far right of the question and select the name of the inspector conducting the inspection from the list.

[5] **ITEM 16**: Capture an electronic signature by drawing inside the dotted line box with a computer mouse on a desktop screen OR a finger on a tablet screen.

[6] Ensure the inspection form has been filled out completely.

[7] After all fields have been completed, make sure you have clicked the "Save" button at the top of the page.

[a] IF the inspection is filled out in the ECMS mobile application (MyECMS),
THEN also click the Submit button at the top of the page.

5.3 Completing the Certification Statement

The inspection form can be certified with signatures on a paper copy OR it can be certified with electronic signatures. See Attachment 1 for a screen shot example of the Certification Statement in EPC-CP-QP-2108 R1 Form 1.

[1] Open the completed inspection in the **ECMS main application** (http://ecms-prod.lanl.gov/ecms/).

[2] Print the complete inspection to a PDF format and save on the computer desktop.

[a] IF the certification will be signed on a paper copy,
THEN print the PDF and proceed to Step 4.

[b] IF the certification will be signed electronically,
THEN proceed to Step 3.

[3] Open the document in Adobe Acrobat Pro.

[a] Using the Text Box icon, add a text box on the "Print name and title" line.

[b] Using the Signature icon, add an electronic signature box on the "Signature" line.

[c] Using the Date icon, add a date box on the "Date" line.

[4] **ITEM 17**: Obtain a printed/typed 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.

[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, EPC-CP Group Leader, or EPC-CP Team Leader) or as identified as duly authorized signatories in the SWPPP.

[b] The manager is certifying the information submitted is "true, accurate, and complete" by signing the inspection form.

[5] Attach the completed, signed, and certified inspection form to the facility SWPPP.

[6] Submit a copy of the completed form to the MSGP Program Lead and/or ECMS database administrator.

6.0 TRAINING

The following personnel require training before implementing this procedure.

- EPC-CP MSGP stormwater compliance personnel,
- DEPs,
- Other LANL personnel identified as being required to conduct routine facility inspections 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. Other participating LANL groups may require training documentation

pursuant to local procedures. All training will be assigned and tracked using the LANL training management system, UTrain.

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 Inspections are signed and certified by individual LANL facilities. The completed forms are maintained in the facility's SWPPP and managed by the facility's document management system. Records must be maintained in accordance with P1020-1, *Laboratory Records Management.* The MSGP team may retain a copy for reference purposes.

Records generated as a result of implementing this procedure are identified by title and type below.

Record Title	QA Record	Non-QA Record
EPC-CP-QP-2108 R1 Form 1, *MSGP Routine Facility Inspection*	☒	☐

8.0 DEFINITIONS AND ACRONYMS

8.1 Definitions

See LANL *Definition of Terms*.

Control Measure – 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.

8.2 Acronyms

See LANL Acronym Master List.

BMP	Best Management Practice
ECMS	Environmental Compliance Management System
EPC-CP	Environmental Protection and Compliance – Compliance Programs
DEP	Deployed Environmental Professional
FOD	Facility Operations Director
LANL or Laboratory	Los Alamos National Laboratory
MSGP or Permit	Multi-Sector General Permit
NPDES	National Pollutant Discharge Elimination System
SCM	Stormwater Control Measure
SWPPP	Stormwater Pollution Prevention Plan

9.0 REFERENCES

Unites States Environmental Protection Agency (EPA) National Pollutant Discharge Elimination System (NPDES) Multi-Sector General Permit for Stormwater Discharges Associated With Industrial Activity (MSGP), March 1, 2021.

Federal Register, National Pollutant Discharge Elimination System (NPDES) 2021 Issuance of the Multi-Sector General Permit for Stormwater Discharges Associated With Industrial Activity. Federal Register: February 19, 2021, Volume 86, Number 32.

Los Alamos National Laboratory Storm Water BMP Manual

P1020-1, *Laboratory Records Management*

P217, *Controlled Portable Electronic Devices*

EPC-CP-QP-2109, *MSGP Corrective Actions*

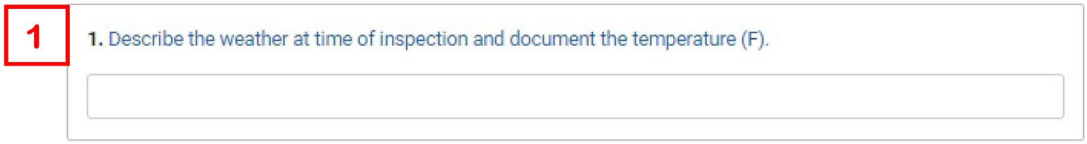
EPC-CP-PIP-2101, *NPDES Multi-Sector General Permit Program Implementation Plan*

10.0 ATTACHMENTS

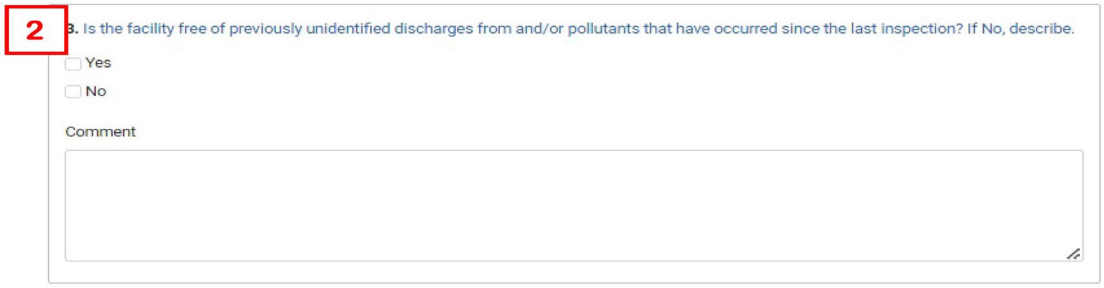
Attachment 1: Screenshot Examples of EPC-CP-QP-2108 R1 Form 1, *MSGP Routine Facility Inspection* in ECMS

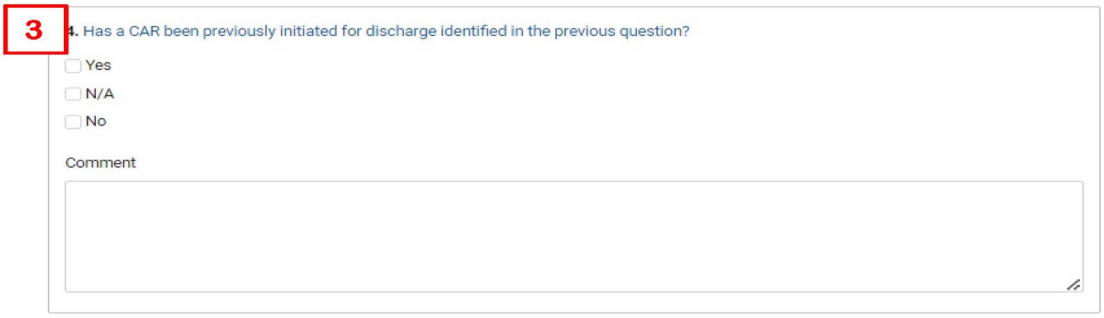
Attachment 1: *MSGP Routine Facility Inspection* in ECMS
Screenshot Examples of EPC-CP-QP-2108 R1 Form 1
(Page 1 of 5)

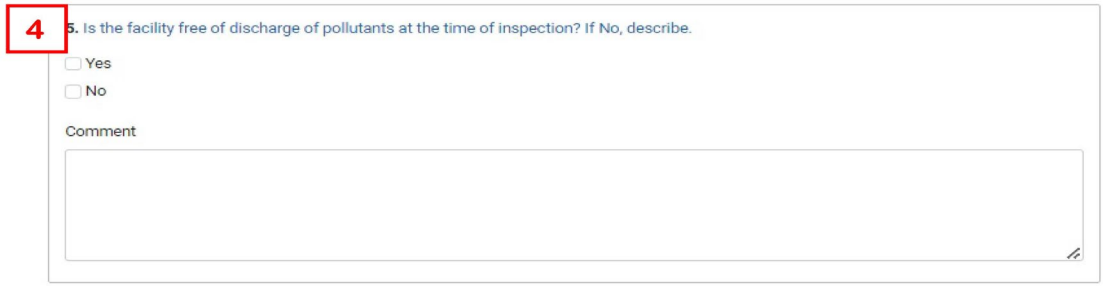
Inspection Questions - Weather (Section 5.1, Step 1)



Inspection Questions - Within the Facility Boundary (Section 5.1, Steps 2-5)



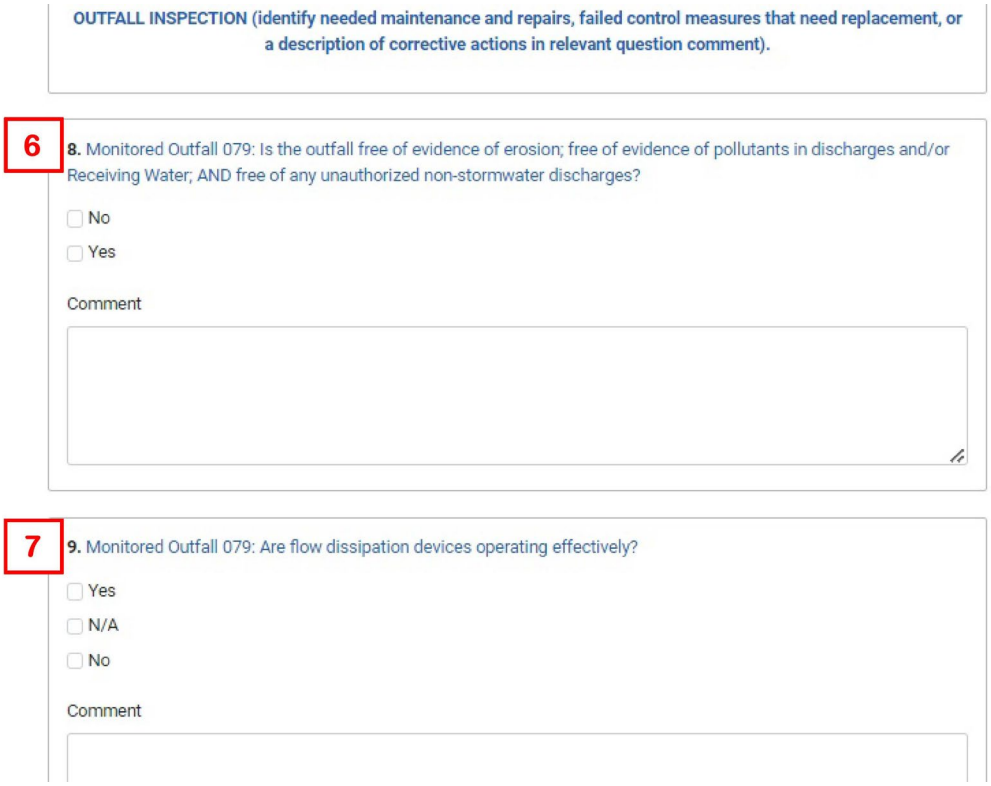




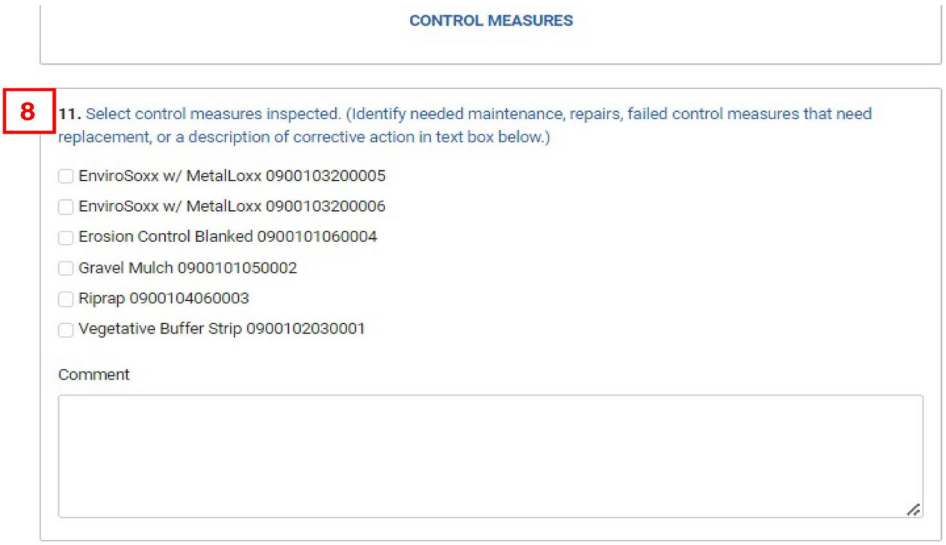
Attachment 1: *MSGP Routine Facility Inspection* in ECMS (cont.)
Screenshot Examples of EPC-CP-QP-2108 R1 Form 1

(Page 2 of 5)

Inspection Questions - Outfalls (Section 5.1, Steps 6-8)



Inspection Questions – Control Measures (Section 5.1, Step 9)



Attachment 1: *MSGP Routine Facility Inspection* in ECMS (cont.)
Screenshot Examples of EPC-CP-QP-2108 R1 Form 1
(Page 3 of 5)

Inspection Questions – Areas/Activities Exposed to Stormwater (Section 5.1, Steps 10-11)

AREA/ACTIVITY EXPOSED TO STORMWATER (identify needed maintenance or a description of corrective actions in relevant question comment).

9

13. Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.

- ☐ Yes
- ☐ N/A
- ☐ No

Comment

14. Transfer areas for substances in bulk: controls adequate (appropriate, effective, and operating)? If "No" describe.

- ☐ Yes
- ☐ N/A
- ☐ No

Comment

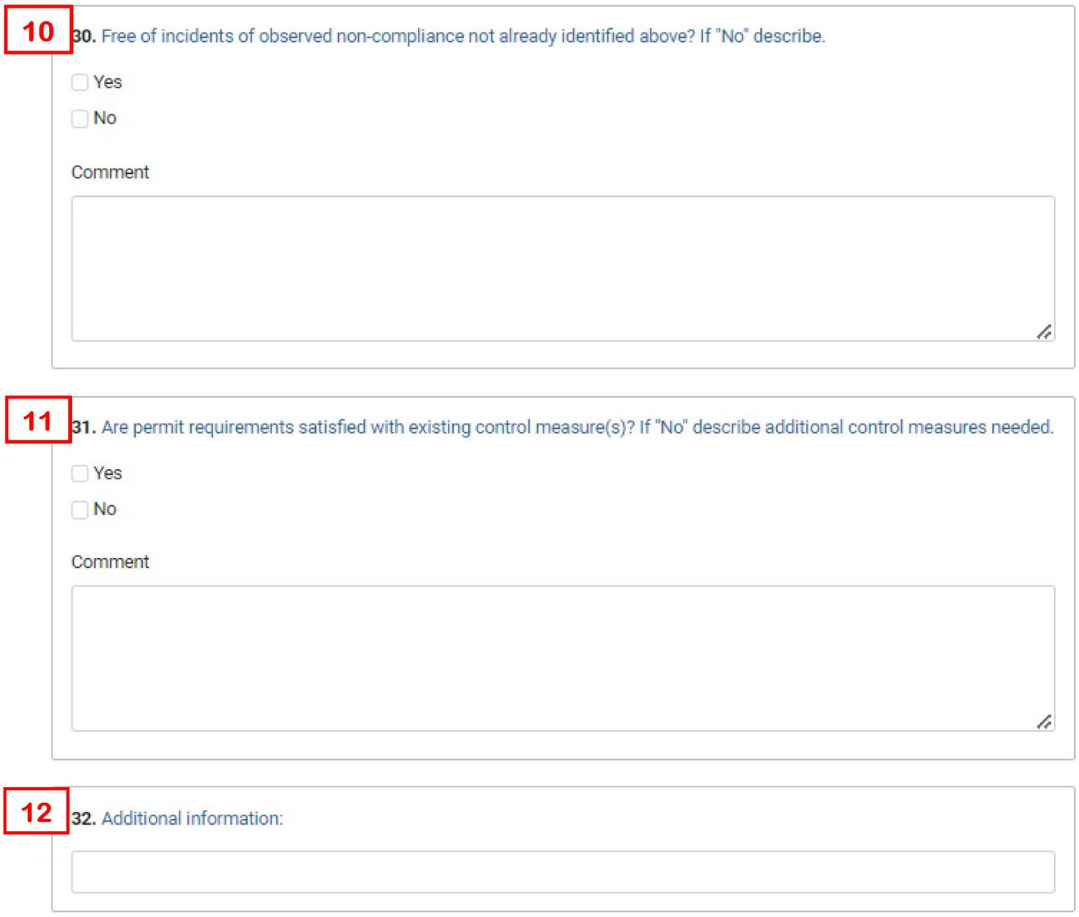
15. Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe.

- ☐ Yes
- ☐ N/A
- ☐ No

Comment

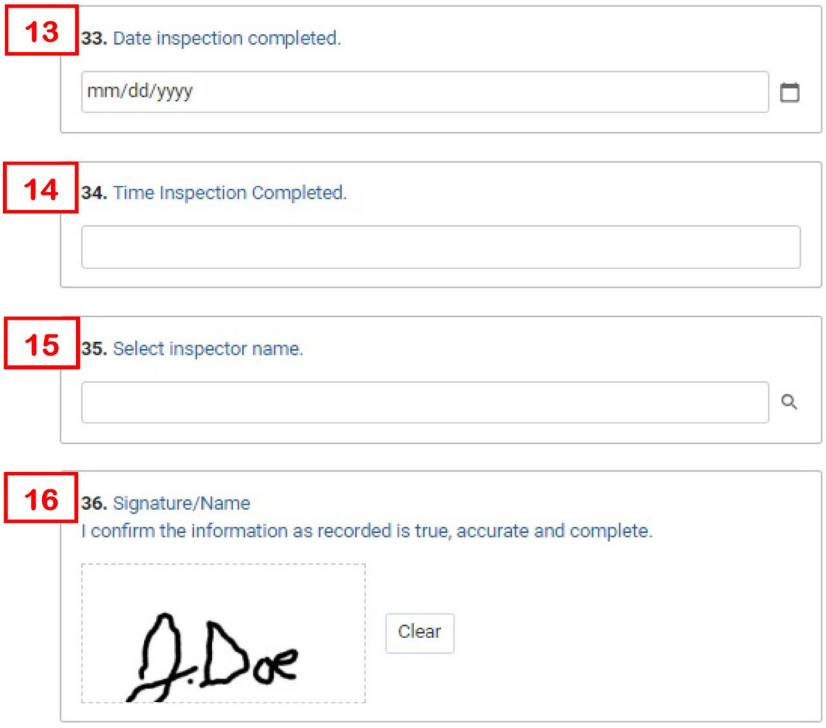
Attachment 1: *MSGP Routine Facility Inspection* in ECMS (cont.)
Screenshot Examples of EPC-CP-QP-2108 R1 Form 1
(Page 4 of 5)

Inspection Questions –Facility and Additional Information (Section 5.1, Steps 12-14)

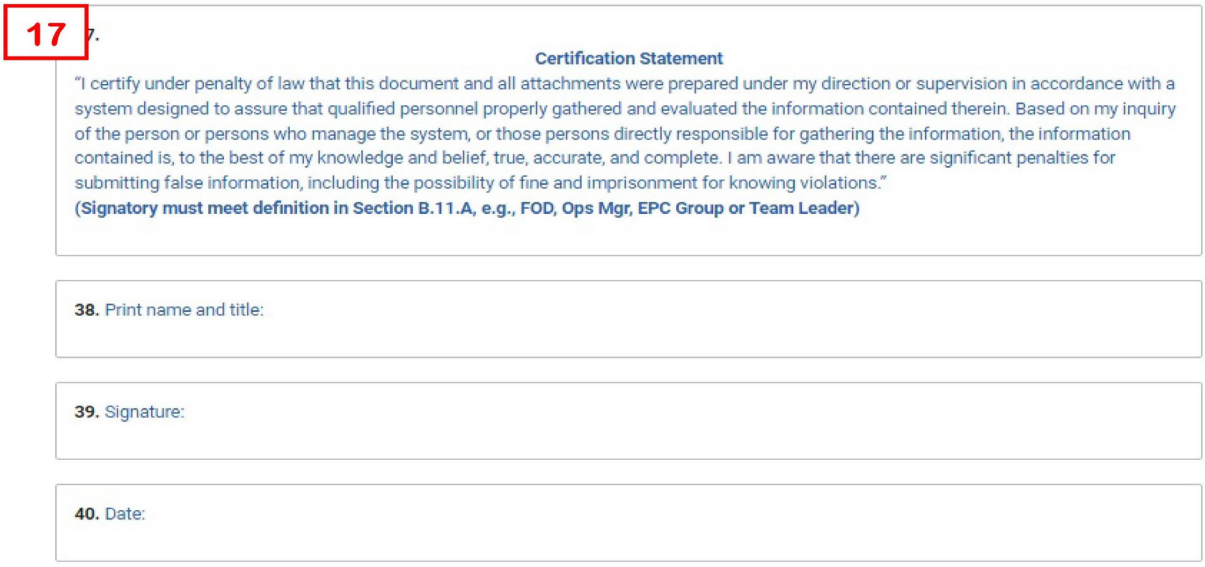


Attachment 1: *MSGP Routine Facility Inspection* in ECMS (cont.)
Screenshot Examples of EPC-CP-QP-2108 R1 Form 1
(Page 5 of 5)

Inspection Questions –Completing the inspection form (Section 5.2, Steps 2-5)



Inspection Questions - Certification Statement (Section 5.3, Step 4)



ATTACHMENT 17: EPC-CP-QP-2109, *MSGP CORRECTIVE ACTIONS*

EPC-CP-QP-2109	Revision: **0**	Los Alamos NATIONAL LABORATORY
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

This copy is uncontrolled.

Users are responsible for ensuring they work to the latest approved version.

To document a required read, Login to UTrain, and go to the Advanced Search.

Revision History

Document Number and Revision *[Include revision number, beginning with Revision 0]*	**Effective Date** *[Document Control Coordinator inserts effective date]*	**Description of Changes** *[List specific changes made since the previous revision]*
0	08/10	New Document.
1	11/10	Incorporated EPC-CP-QP-062 *MSGP Routine Inspections* 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.

Table of Contents

Revision History 2
Table of Contents 3
1.0 Introduction 5
1.1 Purpose 5
1.2 Scope 5
1.3 Applicability 5
2.0 Precautions and Limitations 5
3.0 Prerequisite Actions 6
3.1 Planning and Coordination 6
3.2 Tools and Equipment 6
4.0 Roles and Responsibilities 6
4.1 EPC-CP MSGP Stormwater Personnel 6
4.2 Deployed Environmental Professionals 7
4.3 EPC-CP Storm Water Permitting/Compliance Team Leader 8
4.4 EPC-CP Group Leader 8
4.5 DEP Team Leader 8
4.6 Facilities Operations Director 9
5.0 Process Description 9
5.1 Identifying Conditions Requiring Corrective Actions 9
5.2 Corrective Action and AIM Level Deadlines and Documentation 10
5.2.1 Immediate Action 10
5.2.2 Subsequent Action 11
5.2.3 AIM Level 2 13
5.2.4 AIM Level 3 14
5.2.5 AIM Exceptions 15
5.3 Effect of Corrective Action 16
5.4 Substantially Identical Discharge Points 16
5.5 Spills 16
5.6 Allowable Non-Stormwater Discharges 16
5.7 Entering a Condition Requiring Corrective Action 17
5.8 Updating Corrective Actions 22
5.9 Validation of Corrective Actions 22
5.10 Issues Management 23
5.11 Automatic Notifications 23
6.0 Training 24
7.0 Records 25
8.0 Definitions and Acronyms 25
8.1 Definitions 25
8.2 Acronyms 26
9.0 References 27
10.0 Attachments 27
Attachment 1: Screenshot Example of CAR Database 28
Attachment 2: List of Limited Values in the CAR Database 35

Attachment 3: Example New Corrective Action Finding Notification 36
Attachment 4: Example Weekly Notification of Outstanding Corrective Action Findings 38
Attachment 5: Example Outstanding Corrective Action Report.....39

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).

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.

- 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.

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.

CAUTION

Failure to appropriately control pollutant discharges can result in fines and penalties.

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.

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

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).

- 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.

[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.

[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.

[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.

[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 that 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:

[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.

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;

- 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).”

[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.

- 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).

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.

- 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.

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.

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:

- 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.

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.

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

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*

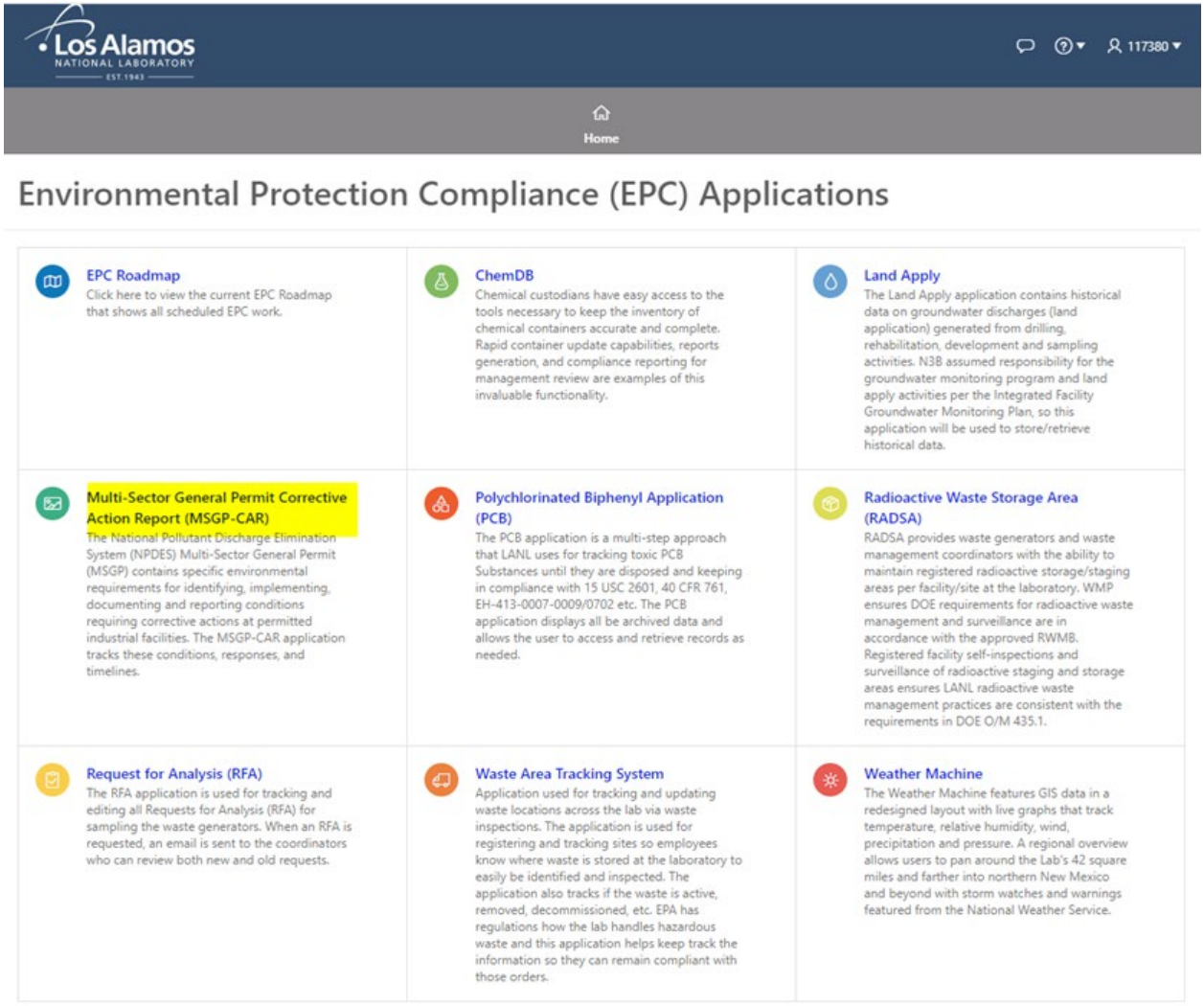
EPC-CP-QP-2108, *MSGP Routine Facility Inspections*

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

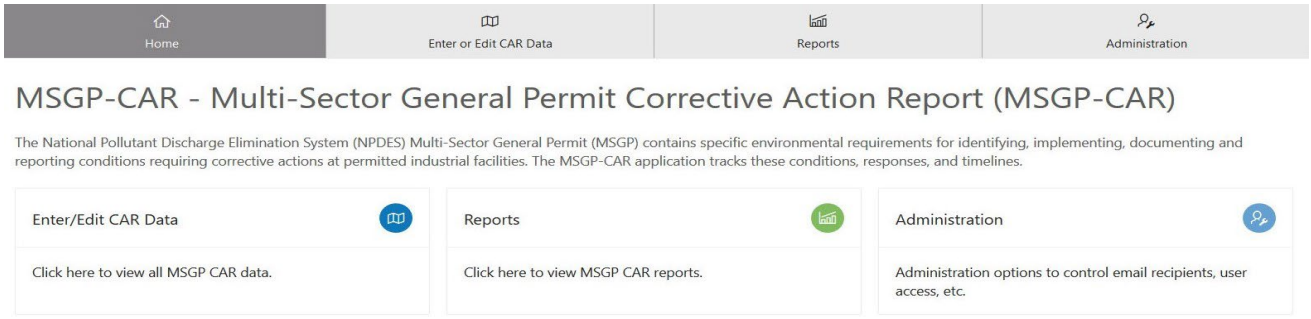
Attachment 1: Screenshot Example of CAR Database

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).

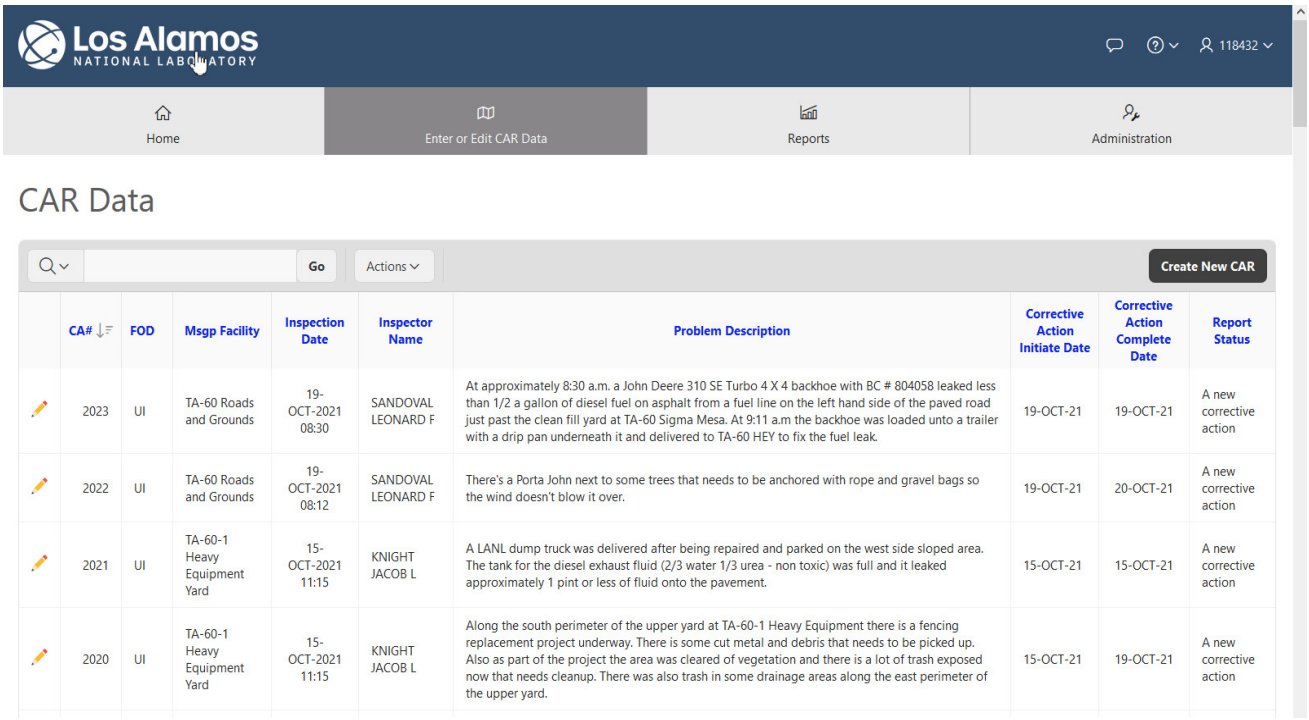


Attachment 1: Screenshot Example of CAR Database (cont.)

Page 2 of 7



There are two basic functional areas in the system for most users: **Enter/Edit CAR Data** and **Reports.**

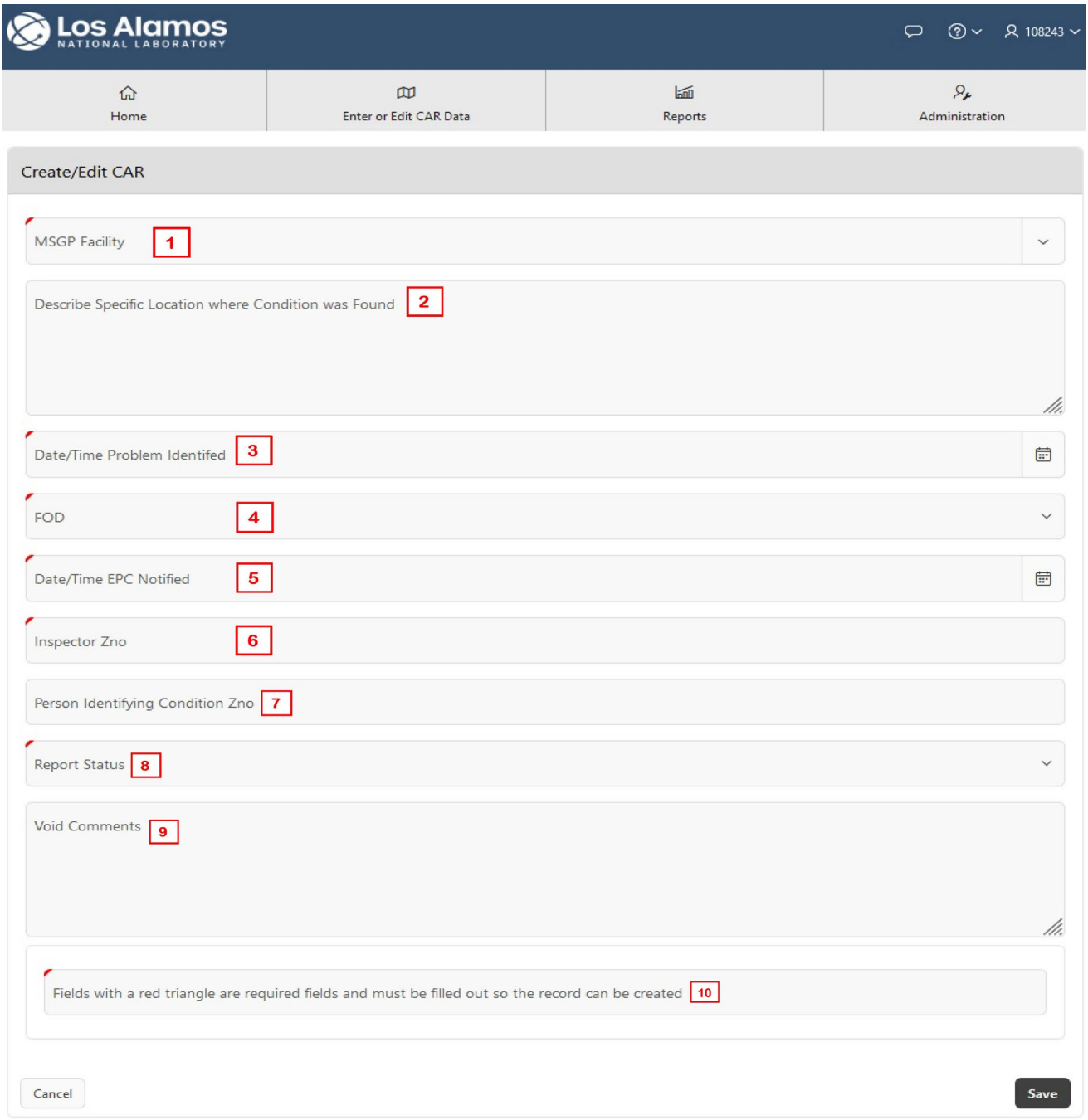


	CA#	FOD	Msgp Facility	Inspection Date	Inspector Name	Problem Description	Corrective Action Initiate Date	Corrective Action Complete Date	Report Status
	2023	UI	TA-60 Roads and Grounds	19-OCT-2021 08:30	SANDOVAL LEONARD F	At approximately 8:30 a.m. a John Deere 310 SE Turbo 4 X 4 backhoe with BC # 804058 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 unto 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).

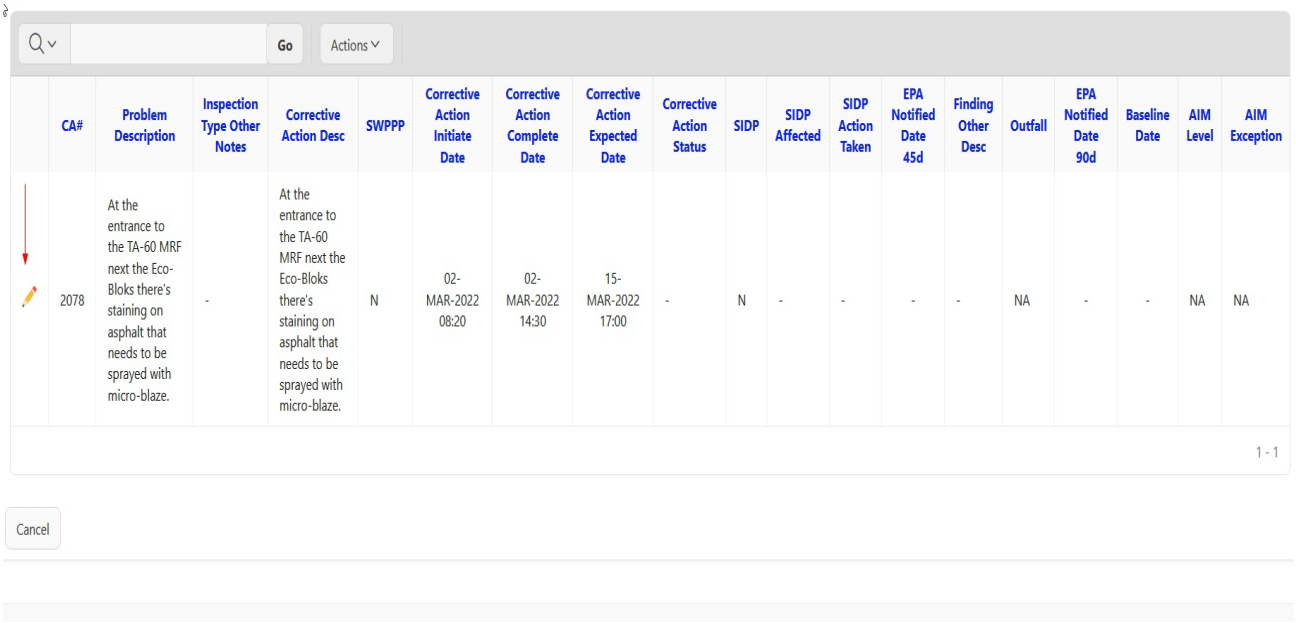
Attachment 1: Screenshot Example of CAR Database (cont.)

Corrective Action Details tab



Attachment 1: Screenshot Example of CAR Database (cont.)

Page 4 of 7



Go | Actions

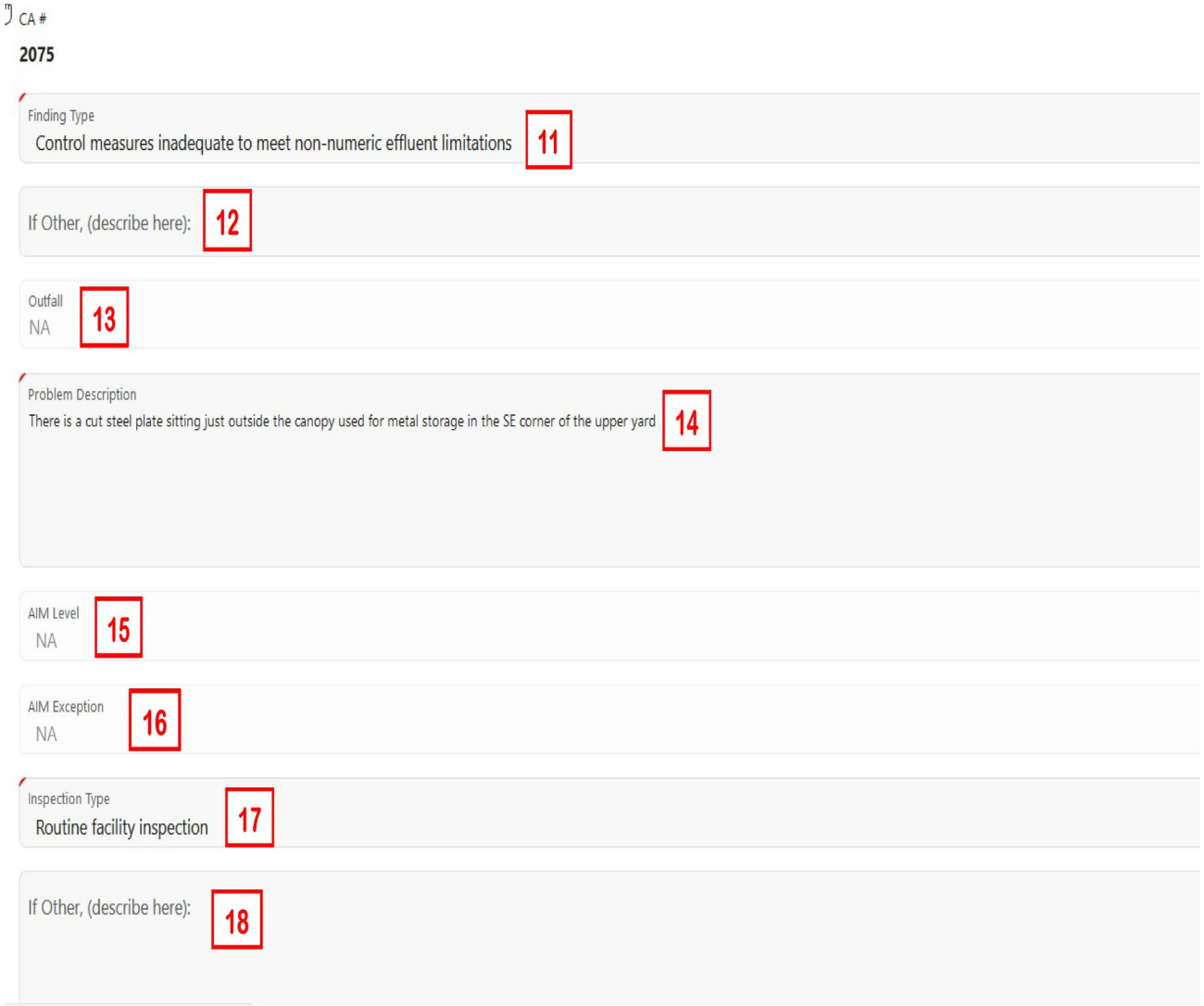
	CA#	Problem Description	Inspection Type Other Notes	Corrective Action Desc	SWPPP	Corrective Action Initiate Date	Corrective Action Complete Date	Corrective Action Expected Date	Corrective Action Status	SIDP	SIDP Affected	SIDP Action Taken	EPA Notified Date 45d	Finding Other Desc	Outfall	EPA Notified 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

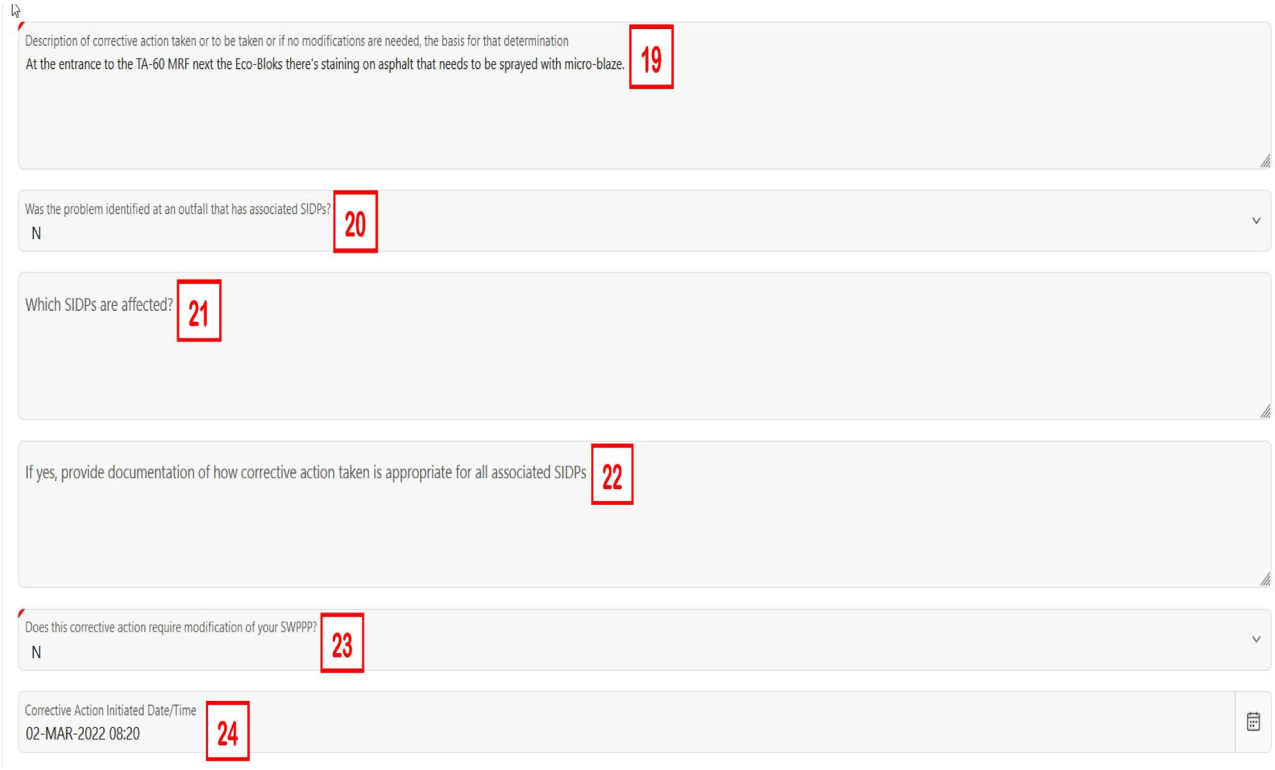
Attachment 1: Screenshot Example of CAR Database (cont.)

Page 5 of 7



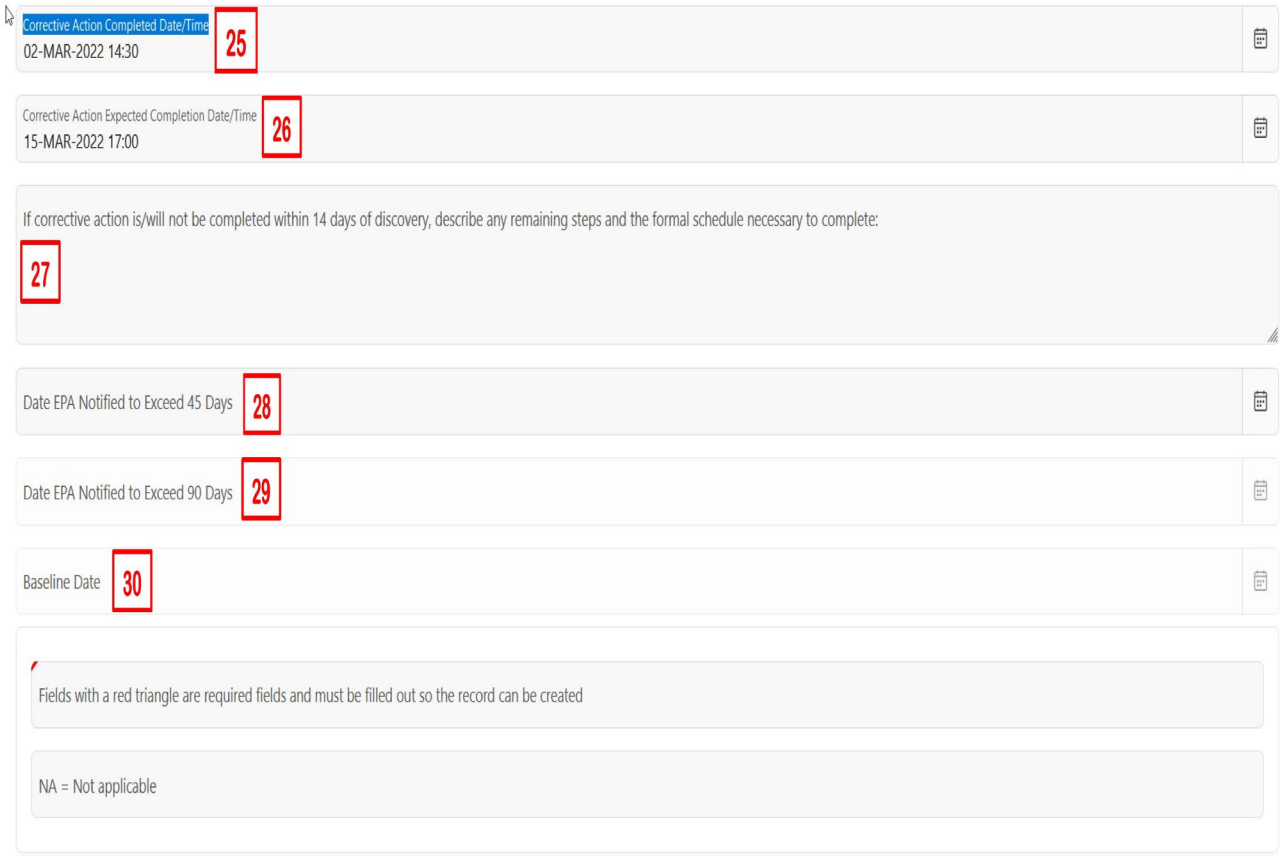
Attachment 1: Screenshot Example of CAR Database (cont.)

Page 6 of 7



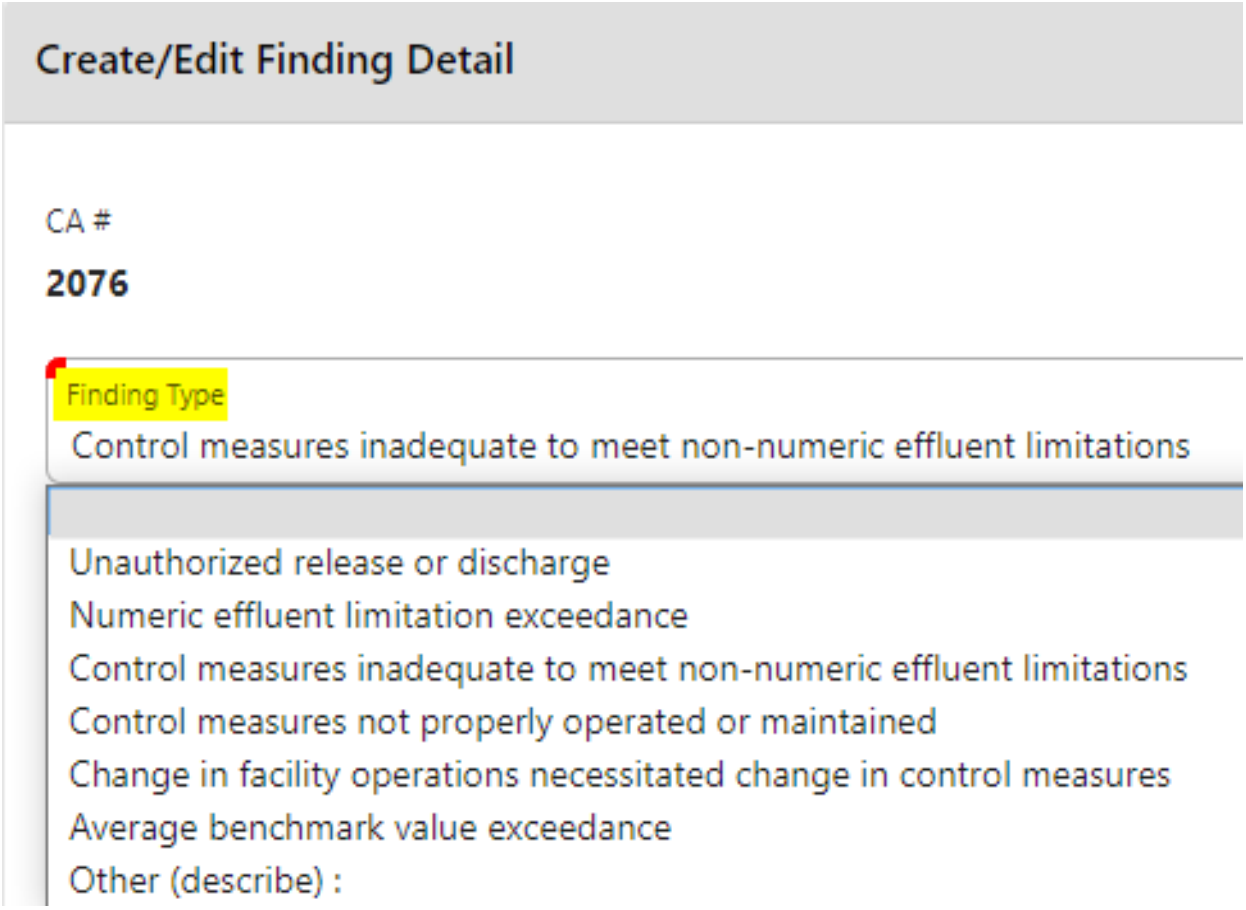
Attachment 1: Screenshot Example of CAR Database (cont.)

Page 7 of 7



Attachment 2: List of Limited Values in the CAR Database

Finding Type *(Item 11 on Page 5 of Attachment 1 Screenshot)*



Attachment 3: Example New Corrective Action Finding Notification

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 cov ers 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:

Attachment 3: Example New Corrective Action Finding Notification

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 make 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.

Attachment 4: Example Weekly Notification of Outstanding Corrective Action Findings

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:

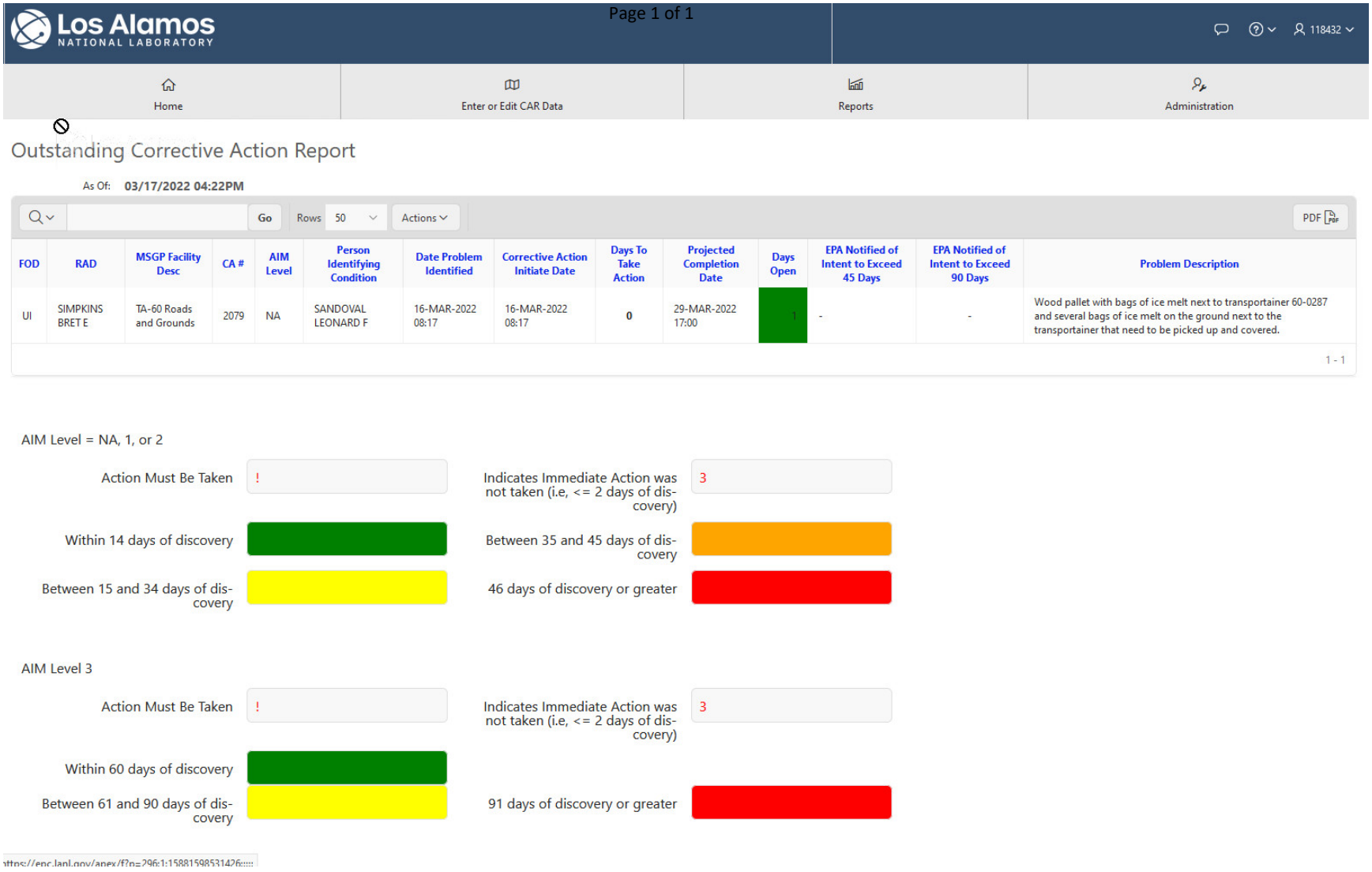
Finding Type	AIM Level	Days to Complete upon Discovery	Document Steps and Formal Schedule not to Exceed Max Days	Extension Beyond Max Days
Unauthorized release or discharge	NA	14	45	Notify EPA
Control measures inadequate to meet applicable water quality standards	NA	14	45	Notify EPA
Control measures 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



Los Alamos NATIONAL LABORATORY

118432

Home | Enter or Edit CAR Data | Reports | Administration

Outstanding Corrective Action Report

As Of: 03/17/2022 04:22PM

Go | Rows 50 | Actions | PDF

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	1	-	-	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.

1 - 1

AIM Level = NA, 1, or 2

Action Must Be Taken	!	Indicates Immediate Action was not taken (i.e, <= 2 days of discovery)	3
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)	3
Within 60 days of discovery			
Between 61 and 90 days of discovery		91 days of discovery or greater	

https://epc.lanl.gov/apex/f?p=296:1:15881598531426:::::

ATTACHMENT 18: EPC-CP-QP-2105, *MSGP STORMWATER VISUAL ASSESSMENTS*

EPC-CP-QP-2105	Revision: **2**	Los Alamos NATIONAL LABORATORY
Effective Date: 05/07/2024	Next Review Date: 05/07/2027	

Environment, Safety, Health, and Quality 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:
Alethea Banar	EPC-CP	Signature on File	04-24-2024

Derivative Classifier: ☒ **Unclassified or** ☐ _____

Name:	Organization:	Signature:	Date:
Steven E. Wolfel	EPC-CP	Signature on File	04-24-2024

Approval Signatures:

EPC-CP Reviewer:	Organization:	Signature:	Date:
Jacob Knight, MSGP Program Lead	EPC-CP	Signature on File	04-24-2024
Responsible Line Manager:	Organization:	Signature:	Date:
Terrill W. Lemke, Team Leader	EPC-CP	Signature on File	05-03-2024
EPC-CP RLM:	Organization:	Signature:	Date:
Sarah Holcomb, Group Leader	EPC-CP	Signature on File	05-07-2024

This copy is uncontrolled.
Users are responsible for ensuring they work to the latest approved version.
To document a required read, Login to UTrain, and go to the Advanced Search.

REVISION HISTORY

Document Number and Revision	Effective Date	Effective Date
ENV-RCRA-QP-064, R0	7/09	New document *MSGP Storm Water Visual Inspection*s.
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.
EPC-CP-QP-2105, R2	05/07/2024	This document supersedes EPC-CP-QP-2105 R1. Reviewed and revised this procedure to the 2021 MSGP language and requirements throughout procedure. Updated Attachment to reflect form from new database. Revised all Sections to match new inspection form, changed all references from Maintenance Connection to ECMS, and removed Section 2.2 Limitations.

Table of Contents

Revision History 2
1.0 Introduction 4
1.1 Purpose 4
1.2 Scope 4
1.3 Applicability 4
2.0 Precautions and Limitations 4
2.1 Precautions 4
3.0 Prerequisite Actions 5
3.1 Planning and Coordination 5
3.2 Performance Documents 5
3.2 Special Tools, Equipment, Parts, and Supplies 6
4.0 Visually Assessing Stormwater 6
4.1 Documenting Sample Information 7
4.2 Assessing Parameters 8
4.3 Completing the Visual Assessment Form 10
4.4 Completing the Certification Statement 11
5.0 Training 11
6.0 Records 11
7.0 Definitions and Acronyms 12
7.1 Definitions 12
7.2 Acronyms 12
8.0 References 13
9.0 Attachments 13
Attachment 1: Screenshot Examples of EPC-CP-QP-2105 R2 Form 1, ... 14

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 (e.g., rain or snowmelt) 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.

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 regulated outfalls at LANL facilities managed and operated by Triad.

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) or in the case of snowmelt, at a time when a measurable discharge occurs.

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 Directorate (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.

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.
2. As needed, 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 (e.g., Utilities and Institutional Facilities), MSGP stormwater monitoring activities are on a standing plan of the day. However, this must be requested each year.
3. Gather the required equipment (see Section 3.3) for the work to be done.
4. Using the Chrome or Firefox web browser (Chrome is preferable) on a mobile phone, tablet or notebook style computer, log into the MyECMS application (http://ecms-prod.lanl.gov/MyECMS/) **OR** the ECMS main application (http://ecms-prod.lanl.gov/ecms/) and confirm that the inspection list displayed matches your sites. If the inspection list does not match, contact EPC-CP Data Management personnel for clarification.
5. Click on an inspection to open the inspection form.
6. Click Save to save work in progress and final work. Do not click Submit in MyECMS until all entries have been checked for completeness and accuracy.
7. Always log out when you have finished work OR work is interrupted.

3.2 Performance Documents

Personnel performing work to this procedure will be familiar with the most current version of the following plan. Copies of the following are not required to be on the job site.

- EPC-CP MSGP Sampling and Analysis Plan (SAP) for the current monitoring year OR project specific monitoring plan

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 (Cell phones are not allowed in Limited Areas or higher. 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 inspection or other form(s)
- LANL issued tablet, notebook or desktop computer with Chrome web browser and Blackberry work applications (see https://int.lanl.gov/policy/documents/P217.pdf for requirements for using portable electronic devices on Laboratory property)
- Necessary access and station keys
- 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 R2 Form 1, *MSGP Visual Assessment* in ECMS. The form can be filled out in the ECMS main application (http://ecms-prod.lanl.gov/ecms/) or the ECMS mobile application (http://ecms-prod.lanl.gov/MyECMS/). Work can be saved at any time by clicking the “Save” button at the top of the inspection form.

NOTE: Each item number listed in red below corresponds to a red numbered box on the screenshot examples.

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**: In the inspection form header, click the calendar icon next to Date of Response. Select the date the **inspection was conducted** and ***not* the date the form was filled out.**

[3] Click the "Save" button at the top of the page to open the inspection form.

[4] **ITEM 2**: 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.

[5] **ITEM 3**: 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 is snowmelt,

THEN enter N/A.

[b] 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.

[6] **ITEM 4**: 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 discharge is snowmelt,

THEN enter N/A.

[b] 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.

[7] **ITEM 5**: 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.

[8] **ITEM 6**: 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 discharge is snowmelt,

THEN DO NOT record total amount of precipitation.

[b] 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.

[9] **ITEM 7**: 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 8**: Observe the color of the discharge in the sample container. Document by describing the color.

[2] **ITEM 9**: Observe any odors detected from the sample. Document by describing the odor (e.g., musty, sewage, sulfur, sour, solvents, petroleum/gas).

[3] **ITEM 10**: 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 11**: Observe any floating solids in the discharge. Document by describing the floating solids.

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 12**: 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 13**: 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 14**: 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 15**: 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 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 16**: Check to see whether the discharge is free of any other indicators of stormwater pollution not described in any other task line above.

[a] 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,
- Indicate if there are SCMs on site,
- Evaluate whether the SCMs are working correctly or need maintenance,
- Evaluate whether implementation of additional SCMs is needed to address the observed contaminant.

[10] 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.

[11] **ITEM 17**: Additional notes, observations, or site conditions not documented in a question field above can be documented in the "Additional information" field.

4.3 Completing the Visual Assessment Form

[1] **ITEM 18**: Click the calendar icon on the far right of the question. Select the date the **inspection was conducted** and ***not*** **the date the form was filled out**.

[a] IF work needs to be performed over multiple days,
THEN note the date and time the work began in the Additional information field (**ITEM 17**).

[2] **ITEM 19**: Document the time the inspection was conducted in the text field.

[3] **ITEM 20**: Click the magnifying glass icon on the far right of the question and select the name of the inspector conducting the inspection from the list.

[a] By signing the inspection form, field personnel certifies that the information submitted is "true, accurate, and complete."

[4] **ITEM 21**: Capture an electronic signature by drawing inside the dotted line box with a computer mouse on a desktop screen OR a finger on a tablet screen.

[5] Ensure the form has been filled out completely.

[6] After all fields have been completed, make sure you have clicked the "Save" button at the top of the page.

[a] IF the inspection is filled out in the ECMS mobile application (MyECMS),
THEN also click the Submit button at the top of the page.

4.4 Completing the Certification Statement

The visual assessment form(s) 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, EPC-CP Group Leader, or EPC-CP Team Leader) or as identified as duly authorized signatories in the SWPPP. The manager is certifying the information submitted is "true, accurate, and complete" by signing the form(s).

The EPC-CP MSGP Program Lead or designee will send completed visual assessment form(s) to the DEPs at the end of each monitoring quarter that will contain a certification statement in a cover sheet. The duly authorized signatory may sign and date this certification statement rather than the certification line associated with each attached form. The cover sheet and associated completed form(s) 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 in EPC-CP-PIP-2101, *NPDES Multi-Sector General Permit Program Implementation Plan*. This will include "self-study" (required reading) for this procedure. Other participating LANL groups may require training documentation pursuant to local procedures. All training will be assigned and tracked using the LANL training management system, UTrain.

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.

6.0 RECORDS

The completed signed MSGP Visual Assessment 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. Records must be maintained in accordance with P1020-1, *Laboratory Records Management.*

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 R2 Form 1, *MSGP Visual Assessment*	☒	☐

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.

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 Directorate

IWD	Integrated Work Document
LANL or Laboratory	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

P1020-1, Laboratory Records Management

P217, Controlled Portable Electronic Devices

EPC-CP-QP-2109, MSGP Corrective Actions

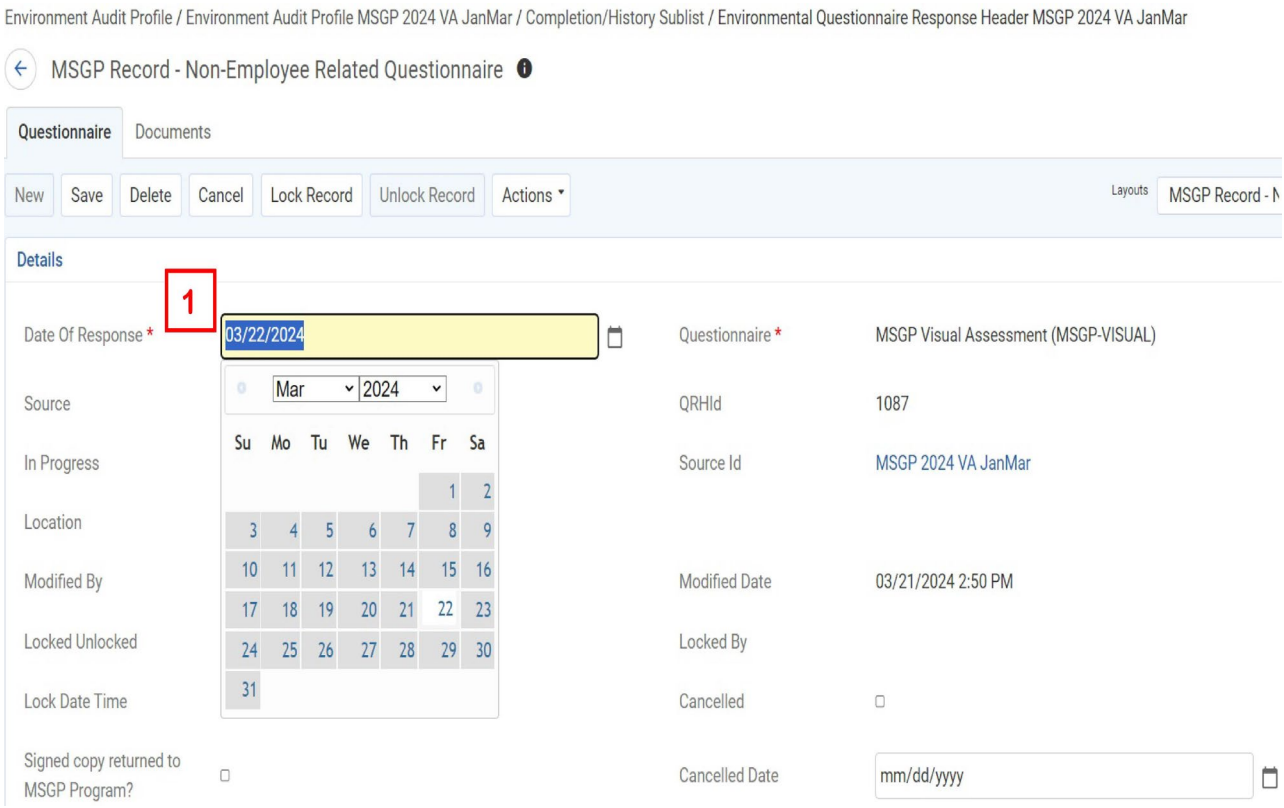
EPC-CP-PIP-2101, NPDES Multi-Sector General Permit Program Implementation Plan

9.0 ATTACHMENTS

Attachment 1: Screenshot Examples of EPC-CP-QP-2105 R2 Form 1, *MSGP Visual Assessment*

Attachment 1: Screenshot Examples of EPC-CP-QP-2105 R2 Form 1,
MSGP Visual Assessment
(Page 1 of 6)

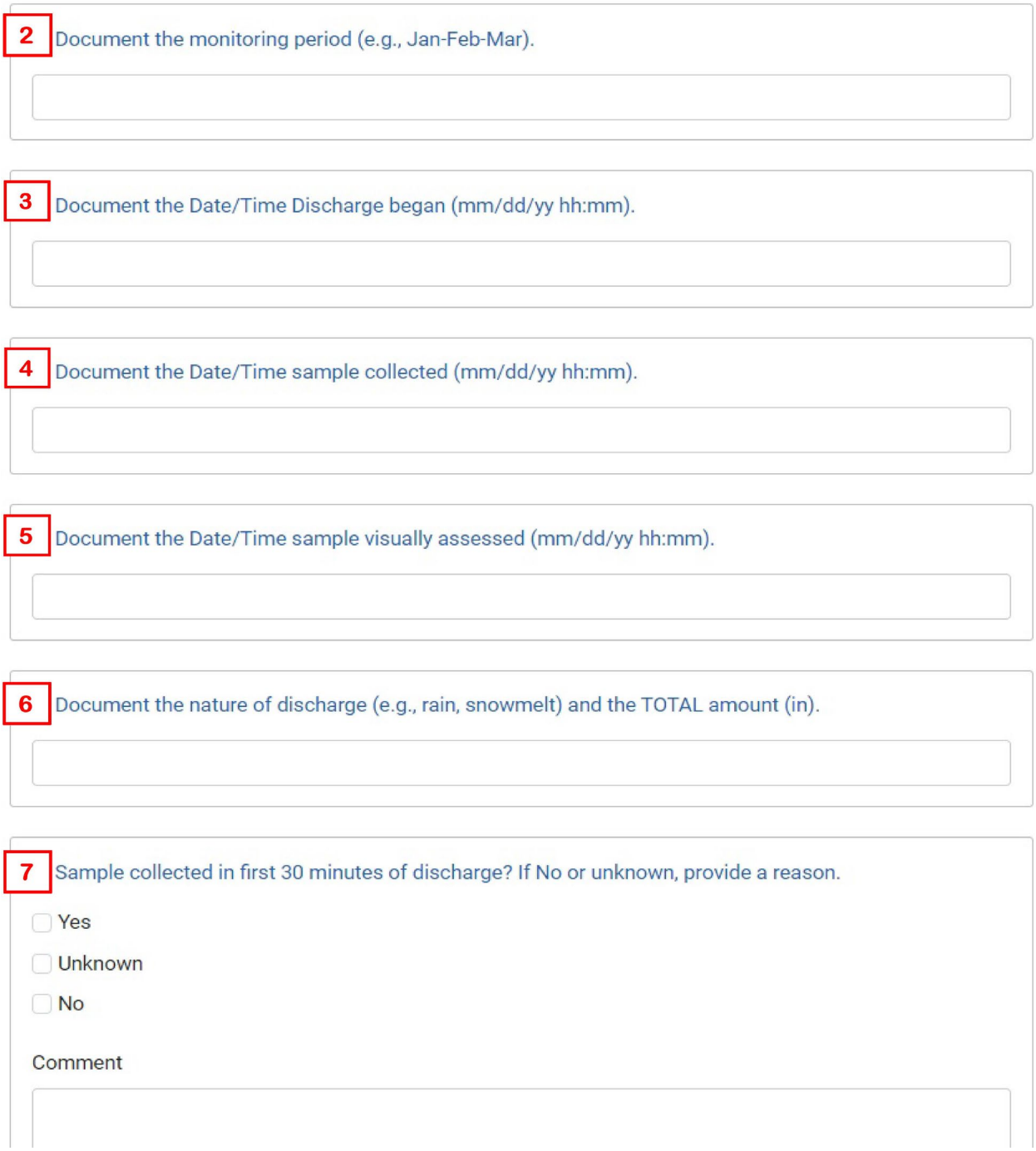
Section 4.1, Steps 2 and 3



Attachment 1: Screenshot Examples of EPC-CP-QP-2105 R2 Form 1, *MSGP Visual Assessment* (cont.)

(Page 2 of 6)

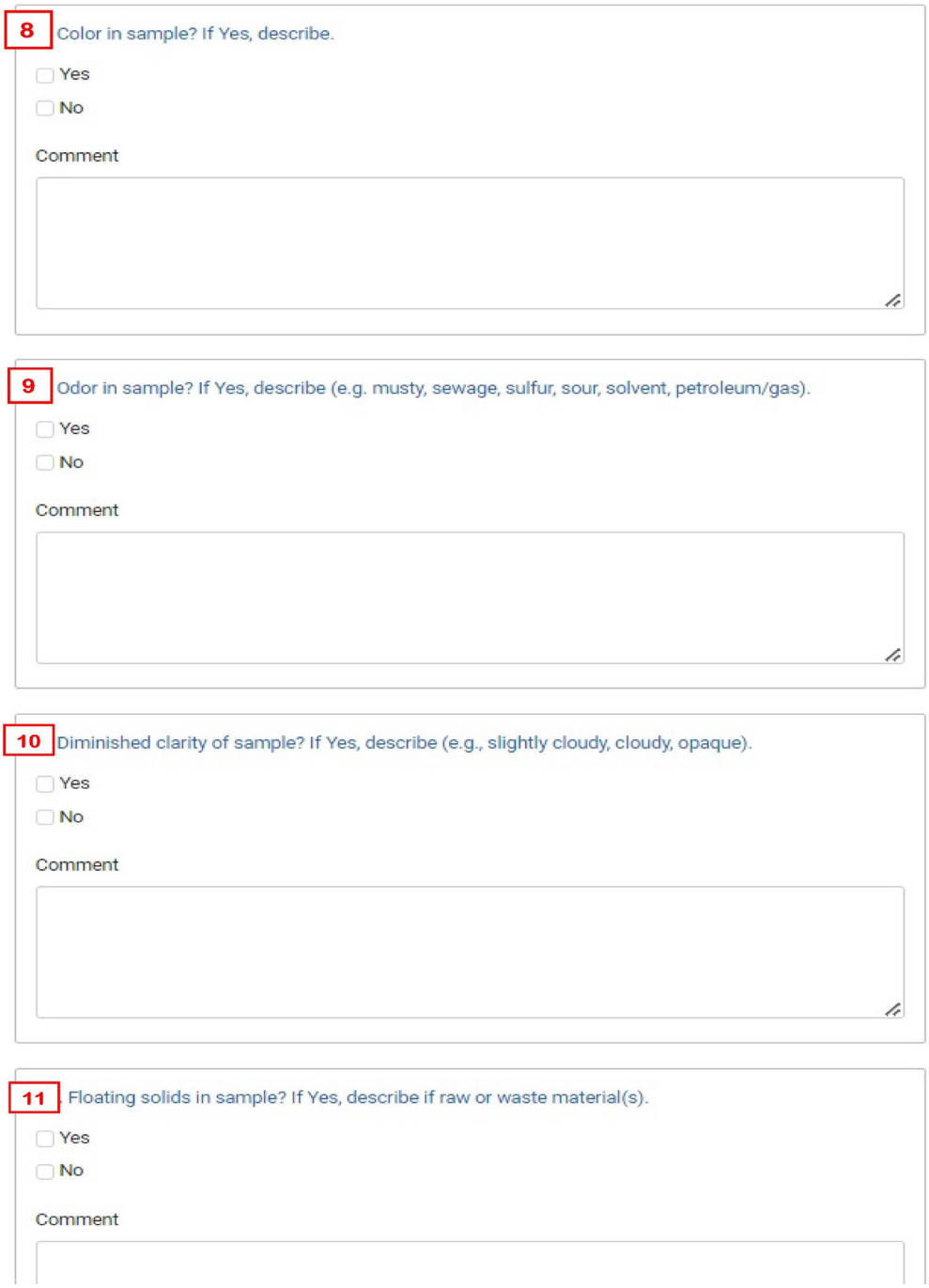
Section 4.1, Steps 4-9



Attachment 1: Screenshot Examples of EPC-CP-QP-2105 R2 Form 1, *MSGP Visual Assessment* (cont.)

(Page 3 of 6)

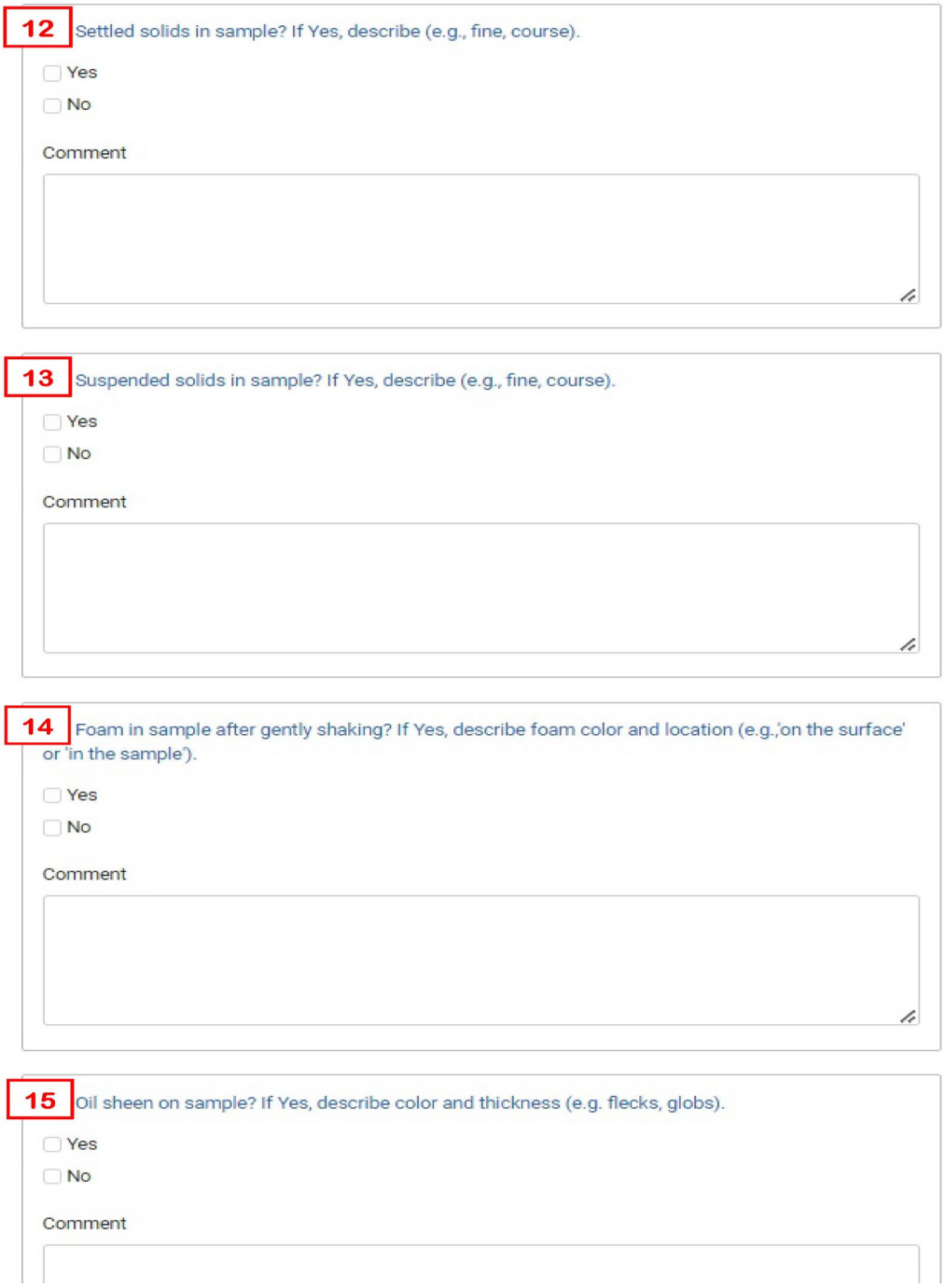
Section 4.2, Steps 1-4



Attachment 1: Screenshot Examples of EPC-CP-QP-2105 R2 Form 1, *MSGP Visual Assessment* (cont.)

(Page 4 of 6)

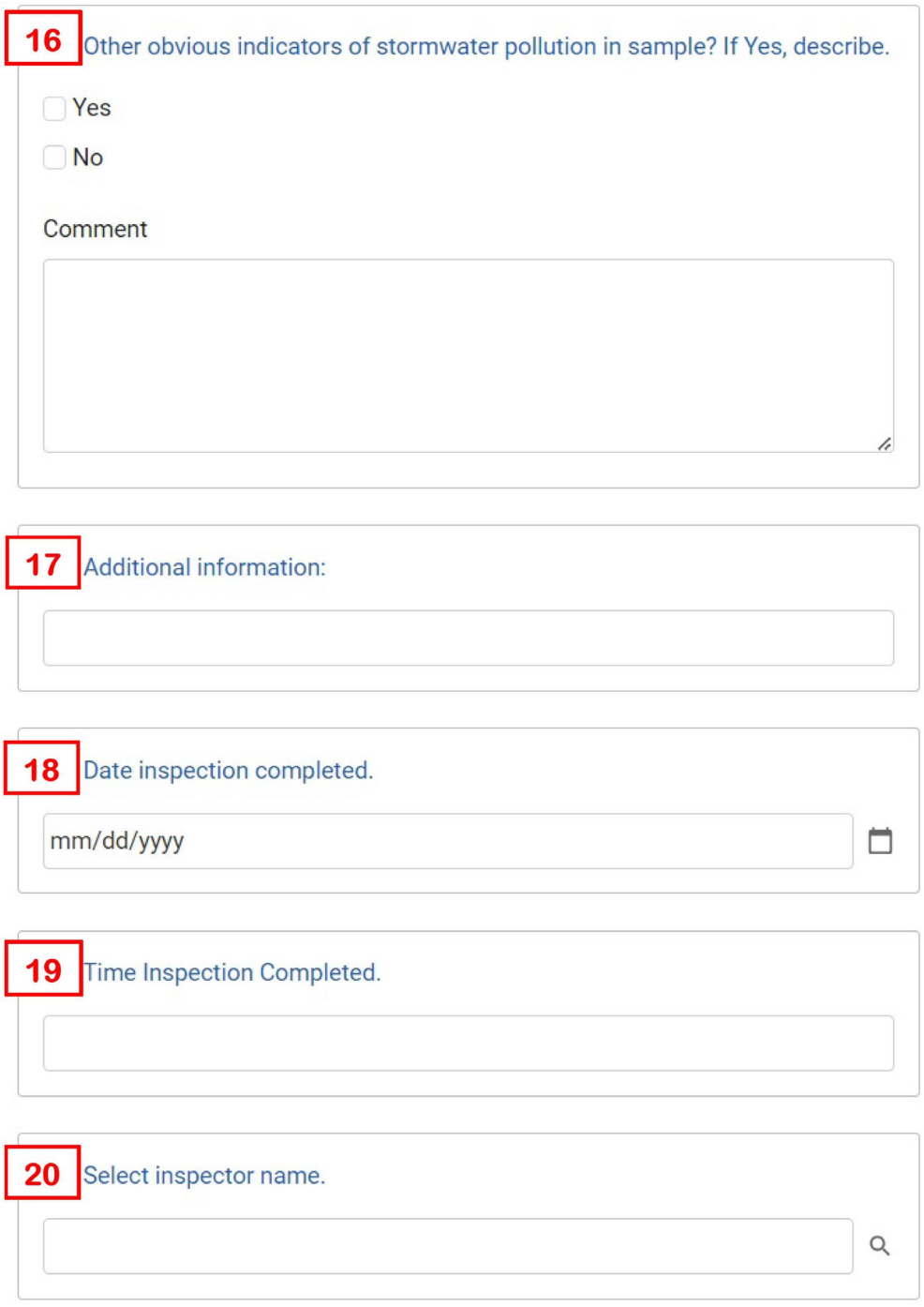
Section 4.2, Steps 4-6



Attachment 1: Screenshot Examples of EPC-CP-QP-2105 R2 Form 1, *MSGP Visual Assessment* (cont.)

(Page 5 of 6)

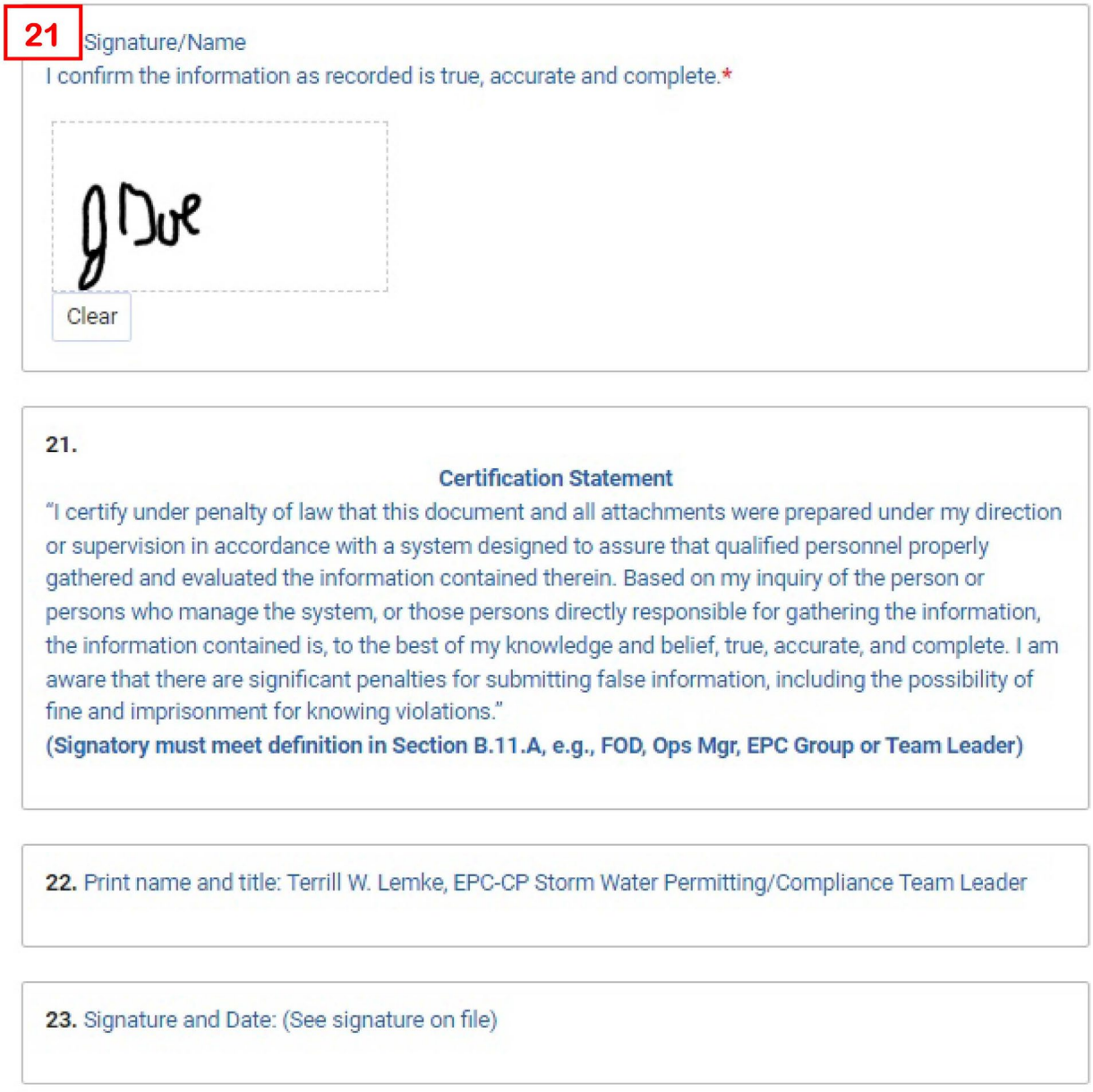
Section 4.2, Steps 9 and 11. Section 4.3, Steps 1-3



Attachment 1: Screenshot Examples of EPC-CP-QP-2105 R2 Form 1, *MSGP Visual Assessment* (cont.)

(Page 6 of 6)

Section 4.3, Step 4



ATTACHMENT 19: EPC-CP-TP-2103, *INSPECTING ISCO STORMWATER RUNOFF SAMPLERS AND RETRIEVING SAMPLES*

EPC-CP-TP-2103	Revision: 1	Los Alamos NATIONAL LABORATORY
Effective Date: 03/16/2023	Next Review Date: 03/16/2026	

Environment, Safety, Health, and Quality 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: _____
Safety Basis:	☒ N/A	☐ USQ	☐ USI Number: _____

Document Author/Subject Matter Expert:

Name:	Organization:	Signature:	Date:
Alethea Banar	EPC-CP	Signature on File	02-16-2023

Derivative Classifier: ☒ **Unclassified or** ☐ _____

Name:	Organization:	Signature:	Date:
Steven E. Wolfel	EPC-CP	Signature on File	02-16-2023

Approval Signatures:

EPC-CP Reviewer:	Organization:	Signature:	Date:
Holly L. Wheeler	EPC-CP	Signature on File	02-16-2023
Responsible Line Manager:	Organization:	Signature:	Date:
Terrill W. Lemke, Team Leader	EPC-CP	Signature on File	03-10-2023
Responsible Line Manager:	Organization:	Signature:	Date:
Steve Story, Group Leader	EPC-CP	Signature on File	03-16-2023

This copy is uncontrolled.
Users are responsible for ensuring they work to the latest approved version.
To document a required read, Login to UTrain, and go to the Advanced Search.

REVISION HISTORY

Document Number and Revision *[Include revision number, beginning with Revision 0]*	**Effective Date** *[Document Control Coordinator inserts effective date]*	**Description of Changes** *[List specific changes made since the previous revision]*
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.
EPC-CP-TP-2103 R1	03/16/2023	This document supersedes EPC-CP-TP-2103 R0. Modified pH measurement process, revised Form 1 and instructions, and updated references.

Table of Contents

Revision History 2
1.0 Introduction 4
1.1 Purpose 4
1.2 Scope 4
1.3 Applicability 4
2.0 Precautions and Limitations 5
2.1 Precautions 5
2.2 Limitations 5
3.0 Prerequisite Actions 6
3.1 Planning and Coordination 6
3.2 Performance Documents 7
3.3 Special Tools, Equipment, Parts, and Supplies 7
4.0 Inspecting the Sampler and Sample Retrieval 8
4.1 Inspecting the Sampler 8
4.1.1 On Arrival 8
4.1.2 Water Collection Information 9
4.1.3 Water Retrieval Information 10
4.1.4 On Departure 10
4.1.5 Equipment Specific Tasks 11
4.1.6 Maintenance Information 12
4.1.7 Bottle Information 12
4.2 Retrieving Samples 13
4.3 Removing Stormwater Samples from the field 15
4.4 Completing the Inspection Form 15
5.0 Training 16
6.0 Records 16
7.0 Definitions and Acronyms 17
7.1 Definitions 17
7.2 Acronyms 17
8.0 References 17
9.0 Attachments 18
Attachment 1: *ISCO Sampler Inspection and Sample Retrieval* in MC Express 19
Attachment 2: *ISCO Sampler Inspection and Sample Retrieval* Hard Copy Example 25
Attachment 3: Sample Retrieval Flow Diagram 27

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, and Quality (ESHQ) 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.

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 open 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 4.4) 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.

- 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), throughout the year 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 interupted.

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.

- 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
- HACH SensION™ + Portable Meter User Manual.

3.3 Special Tools, Equipment, Parts, and Supplies

Ensure the following equipment is available.

- Safety glasses,
- Sturdy hiking boots or steel toe shoes (as needed) with soles that grip and other required facility specific Personal Protective Equipment,
- Nitrile gloves,
- Leather gloves,
- Cell phone. (See https://int.lanl.gov/policy/documents/P217.pdf for requirements for using portable electronic devices on Laboratory property),

  NOTE: Mobile devices (e.g., LANL iPhones, LANL iPads, smart phones tablets, etc.,) cannot be carried into areas that are identified as LANL Secure Spaces.
- 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),
- 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 R1 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.

[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 stormwater 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 stormwater discharge began from the precipitation report.

[b] IF the sampler tripped or collected stormwater, 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 stormwater is collected.

[a] Document if the water is taken by grab sample.

[b] Complete the Bottle Information (**ITEM 19**) in Section 4.1.7.

[c] Follow the steps in Section 4.2 through 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.

[a] IF unable to review the temperature,
THEN check "No" and describe the condition (e.g., dead battery, electrical short).

4.1.3 Water Retrieval Information

[1] **ITEM 7**: 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 8**: 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 9**: 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,
THEN describe the condition (e.g., cables chewed through by animal) and follow-up work needed (e.g., replace cables).

[3] **ITEM 10**: 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 11**: 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 12**: 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 13**: Check and document the sample tubing has passed a suction test.

[6] **ITEM 14**: Check and document the sampler is ON prior to departing the site.

[7] **ITEM 15**: Check and document the liquid level actuator has been set to "Latch" prior to departing the site.

[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 16**: 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 9 for each sampler.

4.1.6 Maintenance Information

[1] **ITEM 17**: 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 or manufacture date.

[3] **ITEM 18**: 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 19**: Document water collected by recording the following information for each bottle by position number in the carousel.

- 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 analysis 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 analysis 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 analysis,

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 7**,
- 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 7**.

[9] Place retrieved sample bottles in a cooler with blue ice (or equivalent).

[10] Return any excess stormwater collected that exceeds the amount required for analysis 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 18**.

[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.

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] Take a pH measurement.

[3] Sign and date/time the SCPL and place it with the samples in the refrigerator.

[4] Ensure custody seal is intact on each sample bottle.

[5] Refer to EPC-CP-QP-2106, *Processing MSGP Stormwater Samples* for processing and submitting samples for shipping to the SMO.

[6] 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 20:** 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 21:** 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 "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 22**: 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] Field personnel are certifying that the information submitted is "true, accurate, and complete" by electronically signing the 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 in EPC-CP-PIP-2101, NPDES Multi-Sector General Permit Program. This will include "self-study" (required reading) for this procedure. Other participating LANL groups may require training documentation pursuant to local procedures. All training will be assigned and tracked using the LANL training management system, UTrain.

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, that must be maintained in accordance with P1020-1, *Laboratory Records Management* and ESH-AP-006, *Records Management Procedure*. Records generated by this document will be submitted to the Records Management designated point of contact or document manager for document management.

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
EPC-CP-TP-2103 R1 Form 1, *ISCO Sampler Inspection and Sample Retrieval*	☒	☐

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 or Laboratory	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
pH	Potential Hydrogen
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

ESH-AP-006, Records Management Plan

P1020-1, Laboratory Records Management

9.0 ATTACHMENTS

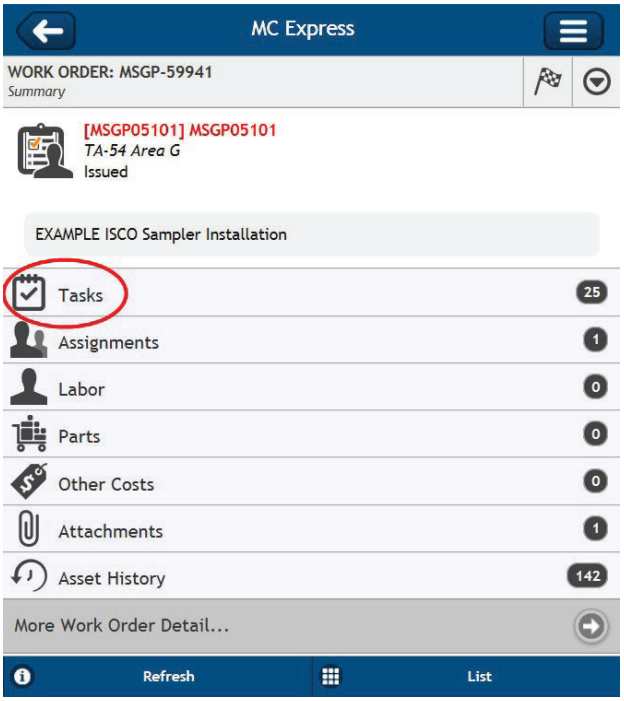
Attachment 1: Screenshot Examples of EPC-CP-TP-2103 R1 Form 1, ISCO Sampler Inspection and Sample Retrieval in MC Express

Attachment 2: EPC-CP-TP-2103 R1 Form 1, ISCO Sampler Inspection and Sample Retrieval Hard Copy Example

Attachment 3: Sample Retrieval Flow Diagram

Attachment 1: *ISCO Sampler Inspection and Sample Retrieval* in MC Express
Screenshot Examples of EPC-CP-TP-2103 R1 Form 1,
(Page 1 of 6)

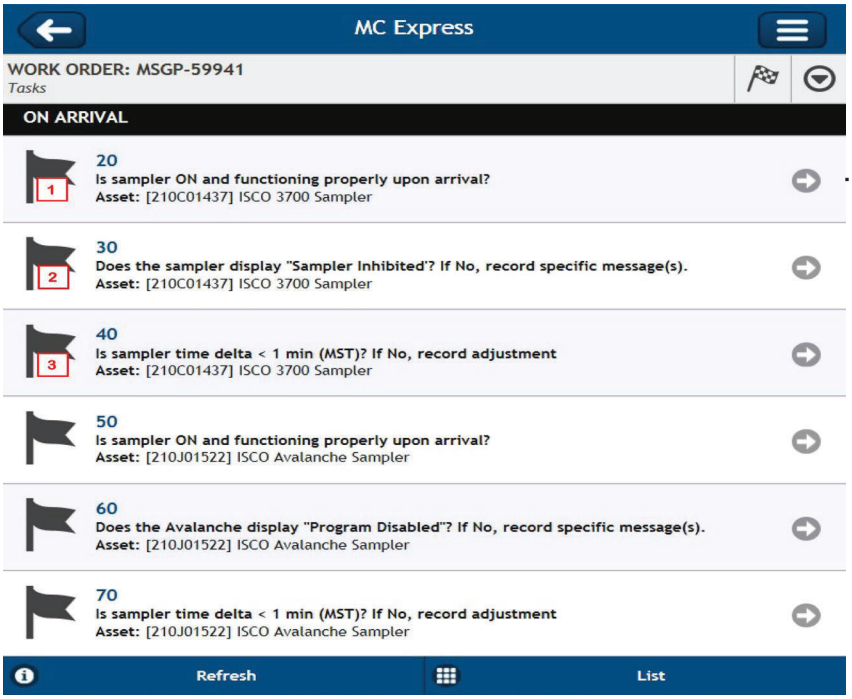
Work Order Summary Page (Section 3.1, Steps 8 and 9)

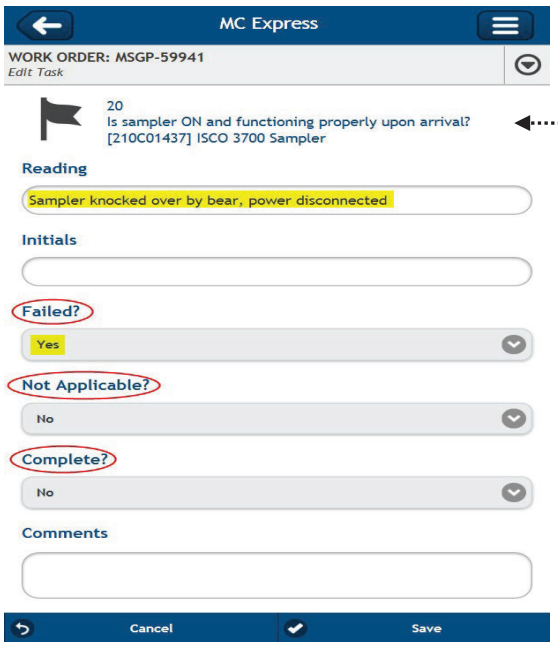


Attachment 1: *ISCO Sampler Inspection and Sample Retrieval* in MC Express (cont.)
Screenshot Examples of EPC-CP-TP-2103 R1 Form 1,

(Page 2 of 6)

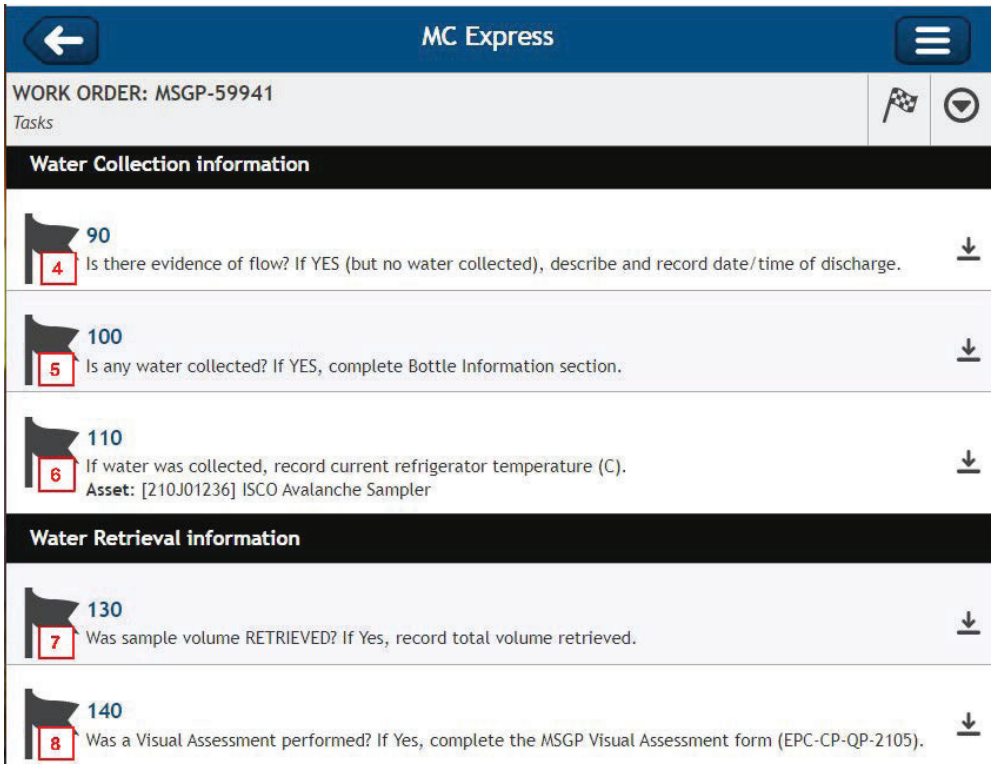
Work Order Tasks page - On Arrival (Section 4.1.1, Steps 2-5)



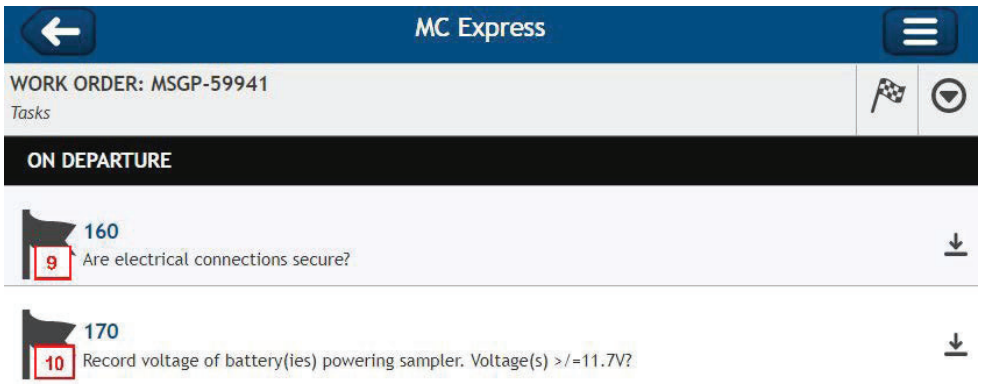


Attachment 1: *ISCO Sampler Inspection and Sample Retrieval* in MC Express (cont.)
Screenshot Examples of EPC-CP-TP-2103 R1 Form 1,
(Page 3 of 6)

Work Order Task Page – Water Collection Information and Water Retrieval Information (Sections 4.1.2, Steps 3-5 and 4.1.3, Steps 1 and 2)

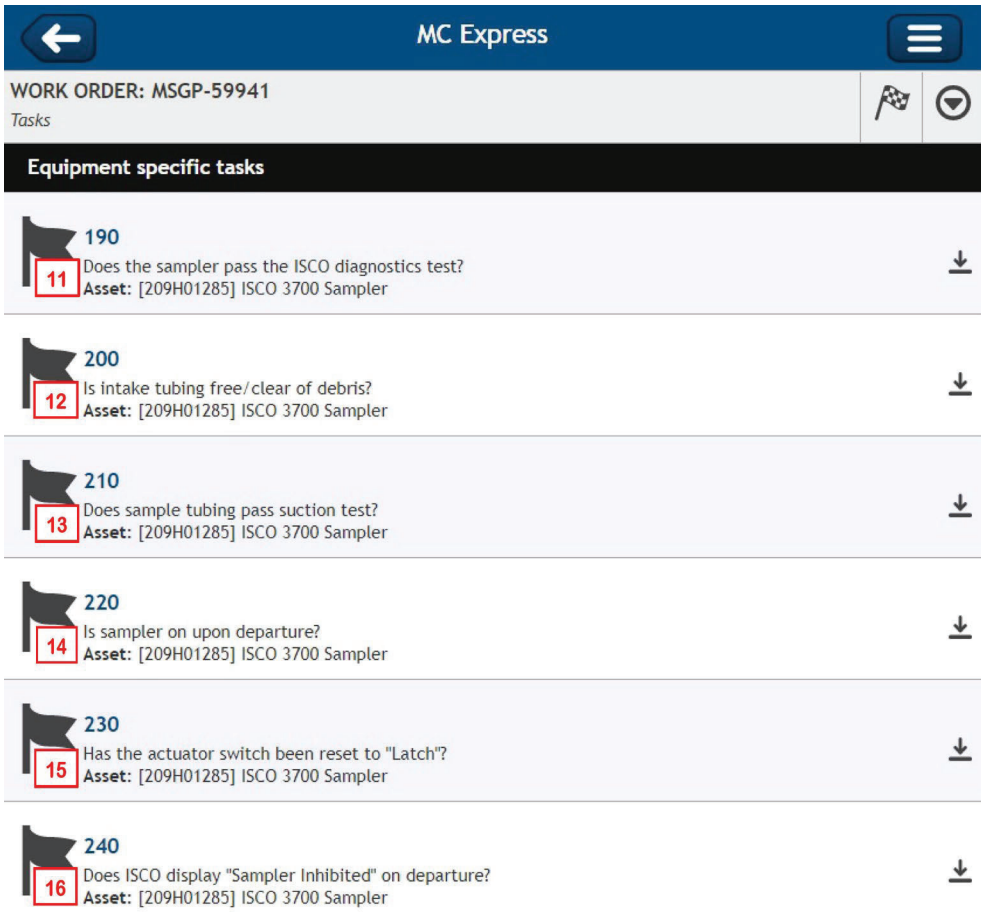


Work Order Task Page – On Departure (Sections 4.1.4, Steps 2 and 3)

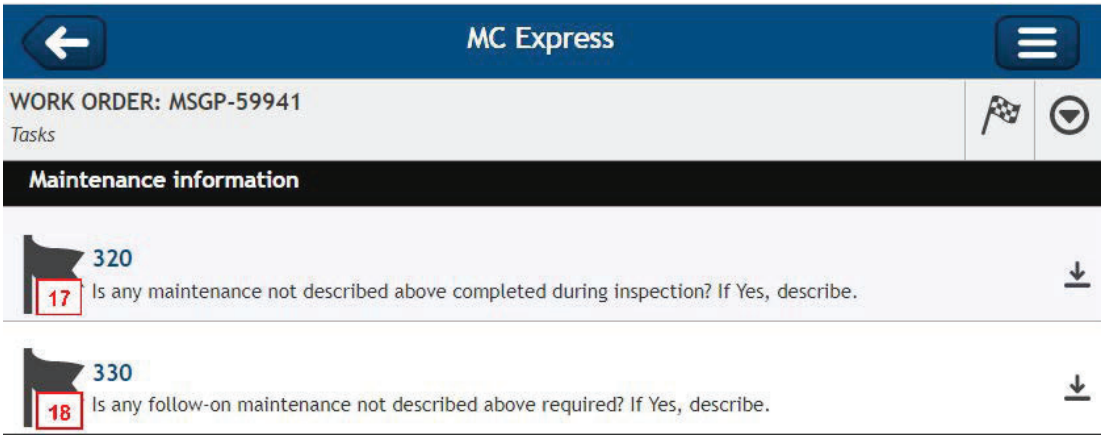


Attachment 1: *ISCO Sampler Inspection and Sample Retrieval* in MC Express (cont.)
Screenshot Examples of EPC-CP-TP-2103 R1 Form 1,
(Page 4 of 6)

Work Order Task Page – Equipment Specific Tasks (Sections 4.1.5, Steps 1-8)

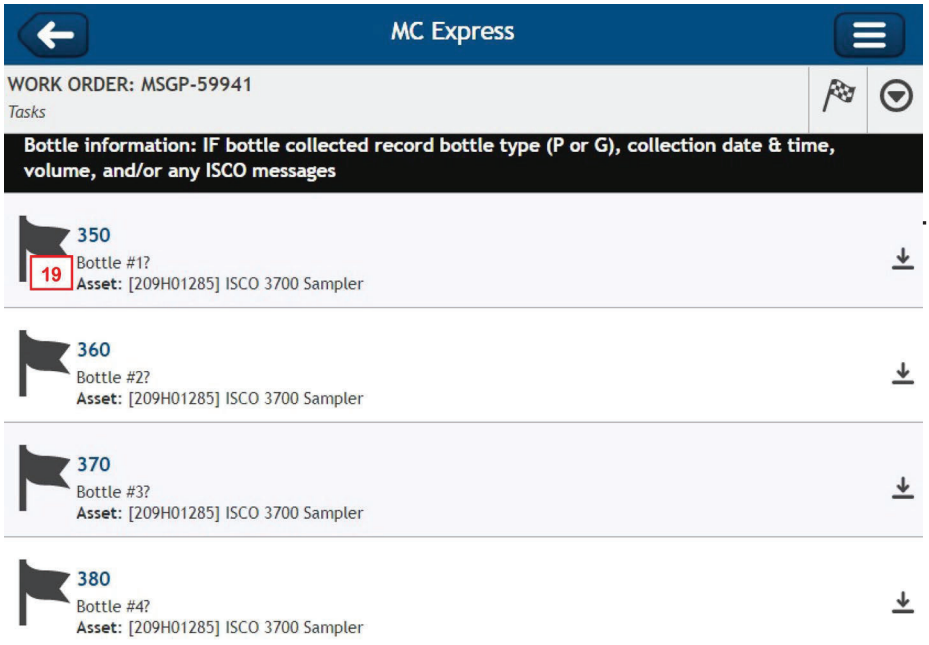


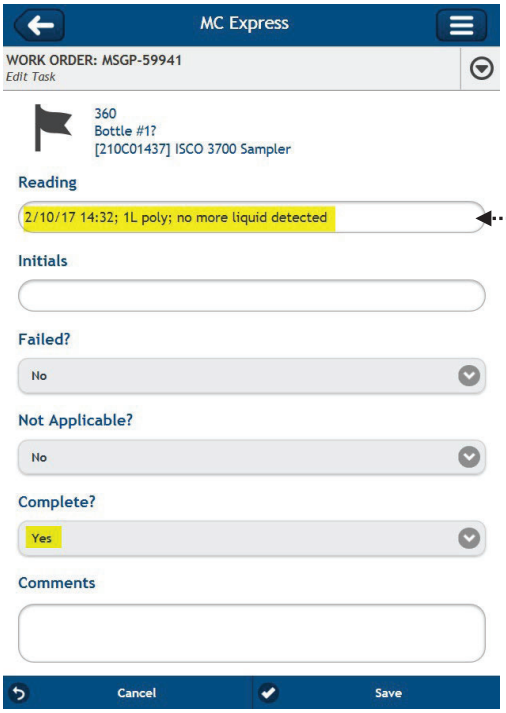
Work Order Task Page – Maintenance Information (Sections 4.1.6, Steps 1-3)



Attachment 1: *ISCO Sampler Inspection and Sample Retrieval* in MC Express (cont.)
Screenshot Examples of EPC-CP-TP-2103 R1 Form 1,
(Page 5 of 6)

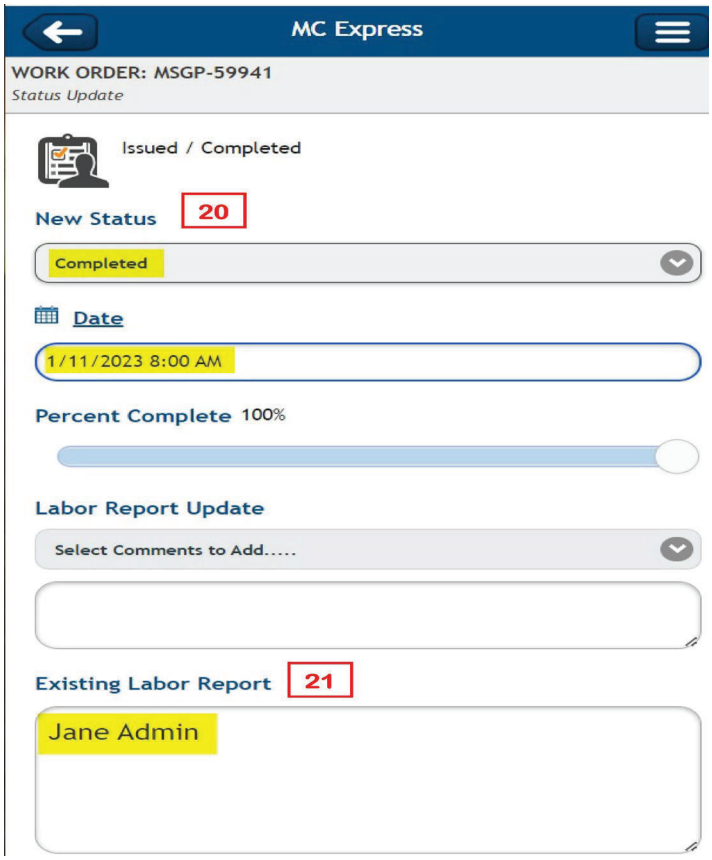
Work Order Task Page – Bottle Information (Sections 4.1.7, Step 1)



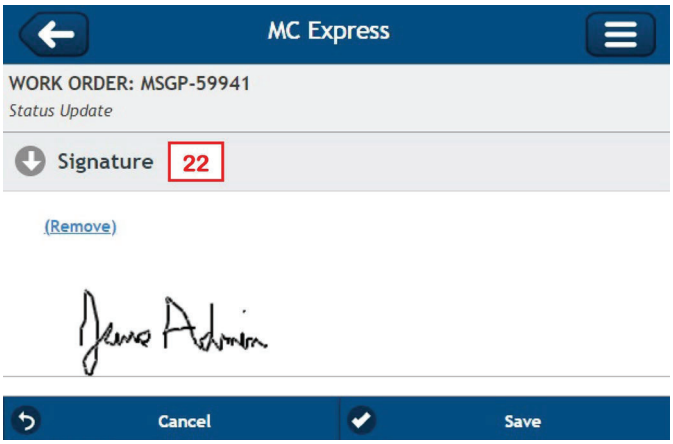


Attachment 1: *ISCO Sampler Inspection and Sample Retrieval* in MC Express (cont.)
Screenshot Examples of EPC-CP-TP-2103 R1 Form 1,
(Page 6 of 6)

Work Order Status Update Page (Section 4.4, Steps 4 and 5)



Work Order Status Update Page (Section 4.4, Step 7)



Attachment 2: *ISCO Sampler Inspection and Sample Retrieval* Hard Copy Example
EPC-CP-TP-2103 R1 Form 1

(Page 1 of 2)

Los Alamos National Laboratory

Work Order MSGP-59941

MSGP Monitoring Stations
Printed 1/11/2023 - 3:49 PM (Duplicate Copy)

Maintenance Details

Requested By: Admin, Jane on 11/1/2022 1:00:00 PM
Procedure: MSGP ISCO Sampler Inspection and Sample Retrieval (EPC-CP-TP-2103 R1 Form 1)
Last PM: N/A
Project: ISCO Sampler Inspections wk 3/28/22 (P-MSGP-5564)

Target: 1/31/2023
Priority/Type: / Inspection
Department: Weapons Facilities Operations

MSGP Program
RG253
TA-09-0214 Metal Fabrication Shop

Contact: Admin, Jane
Phone: 123-4567

Reason: EXAMPLE MSGP ISCO Sampler Inspection and Sample Retrieval

Tasks

	#	Description	Meas.	No	N/A	Yes
		ON ARRIVAL				
1	20	**ISCO 3700 Sampler [209H01285]** Is sampler ON and functioning properly upon arrival?		☐	☐	☐
2	30	**ISCO 3700 Sampler [209H01285]** Does the sampler display "Sampler Inhibited"? If No, record specific message(s).		☐	☐	☐
3	40	**ISCO 3700 Sampler [209H01285]** Is sampler time delta < 1 min (MST)? If No, record adjustment		☐	☐	☐
	50	**ISCO Avalanche Sampler [210J01236]** Is sampler ON and functioning properly upon arrival?		☐	☐	☐
	60	**ISCO Avalanche Sampler [210J01236]** Does the Avalanche display "Program Disabled"? If No, record specific message(s).		☐	☐	☐
	70	**ISCO Avalanche Sampler [210J01236]** Is sampler time delta < 1 min (MST)? If No, record adjustment		☐	☐	☐
		Water Collection information				
4	90	Is there evidence of flow? If YES (but no water collected), describe and record date/time of discharge.		☐	☐	☐
5	100	Is any water collected? If YES, complete Bottle Information section.		☐	☐	☐
6	110	**ISCO Avalanche Sampler [210J01236]** If water was collected, record current refrigerator temperature (C).		☐	☐	☐
		Water Retrieval information				
7	130	Was sample volume RETRIEVED? If Yes, record total volume retrieved.		☐	☐	☐
8	140	Was a Visual Assessment performed? If Yes, complete the MSGP Visual Assessment form (EPC-CP-QP-2105).		☐	☐	☐
		ON DEPARTURE				
9	160	Are electrical connections secure?		☐	☐	☐
10	170	Record voltage of battery(ies) powering sampler. Voltage(s) >/=11.7V?		☐	☐	☐
		Equipment specific tasks				
11	190	**ISCO 3700 Sampler [209H01285]** Does the sampler pass the ISCO diagnostics test?		☐	☐	☐
12	200	**ISCO 3700 Sampler [209H01285]** Is intake tubing free/clear of debris?		☐	☐	☐
13	210	**ISCO 3700 Sampler [209H01285]** Does sample tubing pass suction test?		☐	☐	☐
14	220	**ISCO 3700 Sampler [209H01285]** Is sampler on upon departure?		☐	☐	☐
15	230	**ISCO 3700 Sampler [209H01285]** Has the actuator switch been reset to "Latch"?		☐	☐	☐
16	240	**ISCO 3700 Sampler [209H01285]** Does ISCO display "Sampler Inhibited" on departure?		☐	☐	☐
	250	**ISCO Avalanche Sampler [210J01236]** Does the sampler pass the ISCO diagnostics test?		☐	☐	☐
	260	**ISCO Avalanche Sampler [210J01236]** Is intake tubing free/clear of debris?		☐	☐	☐

EPC-CP-TP-2103 R1 Form 1

Attachment 2: *ISCO Sampler Inspection and Sample Retrieval* Hard Copy Example (cont.)
EPC-CP-TP-2103 R1 Form 1,

(Page 2 of 2)

270	**ISCO Avalanche Sampler [210J01236]** Does sample tubing pass suction test?		☐	☐	☐
280	**ISCO Avalanche Sampler [210J01236]** Is sampler on upon departure?		☐	☐	☐
290	**ISCO Avalanche Sampler [210J01236]** Has the actuator switch been reset to "Latch"?		☐	☐	☐
300	**ISCO Avalanche Sampler [210J01236]** Does Avalanche display "Program Disabled" on departure?		☐	☐	☐
	Maintenance information				
17 320	Is any maintenance not described above completed during inspection? If Yes, describe.		☐	☐	☐
18 330	Is any follow-on maintenance not described above required? If Yes, describe.		☐	☐	☐
	Bottle information: IF bottle collected record bottle type (P or G), collection date & time, volume, and/or any ISCO messages				
19 350	**ISCO 3700 Sampler [209H01285]** Bottle #1?		☐	☐	☐
360	**ISCO 3700 Sampler [209H01285]** Bottle #2?		☐	☐	☐
370	**ISCO 3700 Sampler [209H01285]** Bottle #3?		☐	☐	☐
380	**ISCO 3700 Sampler [209H01285]** Bottle #4?		☐	☐	☐
390	**ISCO 3700 Sampler [209H01285]** Bottle #5?		☐	☐	☐
400	**ISCO 3700 Sampler [209H01285]** Bottle #6?		☐	☐	☐
410	**ISCO 3700 Sampler [209H01285]** Bottle #7?		☐	☐	☐
420	**ISCO 3700 Sampler [209H01285]** Bottle #8?		☐	☐	☐
430	**ISCO 3700 Sampler [209H01285]** Bottle #9?		☐	☐	☐
440	**ISCO 3700 Sampler [209H01285]** Bottle #10?		☐	☐	☐
450	**ISCO 3700 Sampler [209H01285]** Bottle #11?		☐	☐	☐
460	**ISCO 3700 Sampler [209H01285]** Bottle #12?		☐	☐	☐
470	**ISCO Avalanche Sampler [210J01236]** Bottle #1?		☐	☐	☐
480	**ISCO Avalanche Sampler [210J01236]** Bottle #2?		☐	☐	☐
490	**ISCO Avalanche Sampler [210J01236]** Bottle #3?		☐	☐	☐
500	**ISCO Avalanche Sampler [210J01236]** Bottle #4?		☐	☐	☐

Labor Report

20 **Completed:** 1/11/2023 8:00:00 AM

21 **Report:** Jane Admin

22

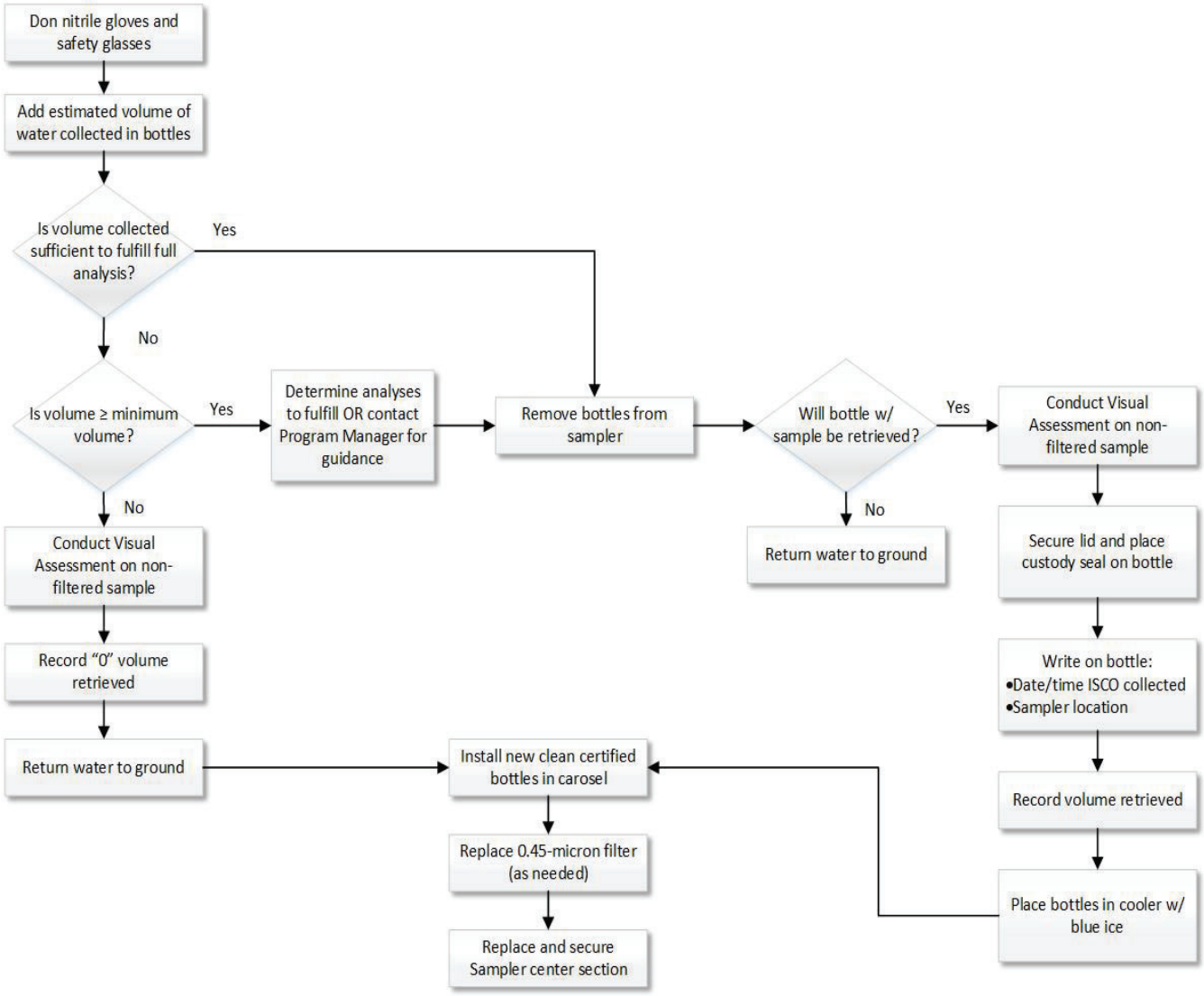
Signature / Name	Date	Signature / Name	Date
Jane Admin	1/11/2023		

I confirm the information as recorded is true, accurate and complete.

EPC-CP-TP-2103 R1 Form 1

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**	Los Alamos NATIONAL LABORATORY
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:	☒ 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:
Alethea Banar	EPC-CP	Signature on File	10-26-2022

Derivative Classifier: ☒ **Unclassified or** ☐ _____

Name:	Organization:	Signature:	Date:
Steven Wolfel	EPC-CP	Signature on File	10-26-2022

Approval Signatures:

Subject Matter Expert:	Organization:	Signature:	Date:
Holly Wheeler	EPC-CP	Signature on File	11-01-2022
Responsible Line Manager:	Organization:	Signature:	Date:
Terrill Lemke, Team Leader	EPC-CP	Signature on File	11-16-2022
Responsible Line Manager:	Organization:	Signature:	Date:
Steve Story, Group Leader	EPC-CP	Signature on File	11-28-2022

This copy is uncontrolled.

Users are responsible for ensuring they work to the latest approved version.

To document a required read, Login to UTrain, and go to the Advanced Search.

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.

Table of Contents

Revision History 2
1.0 Introduction 4
1.1 Purpose 4
1.2 Scope 4
1.3 Applicability 4
2.0 Precautions and Limitations 4
3.0 Prerequisite Actions 5
3.1 Planning and Coordination 5
3.2 Performance Documents 5
3.3 Special Tools, Equipment, Parts and Supplies 5
3.4 Equipment Calibration 6
4.0 Processing Samples 6
4.1 Preparation for Processing Samples 7
4.2 Filtering Samples 9
4.3 Preserving Unfiltered and Filtered Samples 10
4.4 Quality Control Samples 11
4.4.1 Field Blank Samples 11
4.4.2 Field Duplicate Samples 12
4.5 Handling Excess Stormwater 12
4.6 Submit Samples for Shipping to Offsite Analytical Laboratory 13
5.0 Training 14
6.0 Records 14
7.0 Definitions and Acronyms 15
7.1 Definitions 15
7.2 Acronyms 15
8.0 References 15
9.0 Attachments 16
Attachment 1: EPC-CP-QP-2106 R1 Form 1, MSGP pH Probe Calibration Log 17
Attachment 2: Water Sample Collection and Processing Log/Field Chain of Custody Example 18
Attachment 3: Sample Container Labels Example 19

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.

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)

- 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.

***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.

- 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.

[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.

[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 (HNO_3), and sulfuric acid (H_2SO_4). 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.

[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, HNO_3).

[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.

[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, HNO_3).

[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.

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.

[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, *MSGP pH Probe Calibration Log*	☒	☐
*Water Sample Collection and Processing Log/Field Chain of Custody	☒	☐
Copy of logbook entry(s) (if a logbook is used)	☒	☐
Other pertinent field or lab notes (if additional notes are required)	☒	☐

*The original document is part of the data package QA records for the SMO. MSGP retains a copy for tracking purposes only.

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

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.)*
☐ 4.00 Expiration Date: _____	_____
☐ 7.00 Expiration Date: _____	_____
☐ 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.)*
☐ 4.00 Expiration Date: _____	_____
☐ 7.00 Expiration Date: _____	_____
☐ 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.)*
☐ 4.00 Expiration Date: _____	_____
☐ 7.00 Expiration Date: _____	_____
☐ 10.00 Expiration Date: _____	_____

*Reading must be within +/- 0.50 S.U. for valid calibration. If unachievable, explain:

Attachment 2: Water Sample Collection and Processing Log/Field Chain of Custody Example

(Page 1 of 1)

Los Alamos National Laboratory

WATER SAMPLE COLLECTION AND PROCESSING LOG/FIELD CHAIN OF CUSTODY

EVENT ID: 11743 **EVENT NAME:** MSGP 2018

SAMPLE ID: MSGP-18-153015 **WORK ORDER:** MSGP-12345

COLLECTION DATE/TIME: 07/01/18 16:03 **RETRIEVAL DATE/TIME:** 07/03/18 09:25

LOCATION ID: MSGP04301 **SAMPLER TYPE:** APS-R

LOCATION TYPE: WCS **SAMPLE PREP:** UF

LOCATION SYNONYM(S): N/A **FIELD QC TYPE:** REG

FIELD MATRIX: WT **SAMPLE USAGE:** COMP

PRIORITY	ORDER	CONTAINER	#	PRESERVATIVE	COLLECTED Y/N	SPECIAL INSTRUCTIONS	PROCESSING COMMENTS
N/A	MSGP-TSS	~~500~~ 250 ML POLY	1	ICE	X	N/A	N/A

SAMPLE COMMENTS: N/A

FIELD PARAMETERS:

Sample Time N/A HH:MM pH 6.2 SU Visual Inspection Y SU

Visual Inspection WO# MSGP-67890

COLLECTED BY (Printed Name) (Signature)	Jane Doe	Date/Time 07/03/18 09:25			
RELINQUISHED BY (Printed Name) (Signature)	Jane Doe	Date/Time 07/03/18 10:05	RECEIVED BY (Printed Name) (Signature)	John Smith	Date/Time 07/03/18 10:05
PROCESSED BY (Printed Name) (Signature)	John Smith	Date/Time 07/03/18 13:00			
RELINQUISHED BY (Printed Name) (Signature)	John Smith	Date/Time 07/04/18 08:35	RECEIVED BY (Printed Name) (Signature)	See COC# 2017-1326	Date/Time
RELINQUISHED BY (Printed Name) (Signature)	N/A	Date/Time	RECEIVED BY (Printed Name) (Signature)	N/A	Date/Time

Report Date: 08/01/2018

EXAMPLE

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-Al-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-Al-Total Recoverable	
Date/	Time:

EXAMPLE

ATTACHMENT 21: EPC-CP-QP-0903, *ENVIRONMENTAL REPORTING REQUIREMENTS FOR RELEASES OR EVENTS*

EPC-CP-QP-0903	Revision: **1**	Los Alamos NATIONAL LABORATORY
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

This copy is uncontrolled.
Users are responsible for ensuring they work to the latest approved version.
To document a required read, Login to UTrain, and go to the Advanced Search.

REVISION HISTORY

Document Number and Revision *[Include revision number, beginning with Revision 0]*	**Effective Date** *[Document Control Coordinator inserts effective date]*	**Description of Changes** *[List specific changes made since the previous revision]*
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.

Table of Contents

Revision History 2
1.0 Introduction 4
1.1 Purpose 4
1.2 Scope 4
1.3 Applicability 4
2.0 Precautions and Limitations 4
3.0 Prerequisite Actions 4
3.1 Planning and Coordination 4
3.2 Collaboration with other Subject Matter Experts (SMEs) 5
4.0 Process Description 5
4.1 Reporting Releases to Pueblo Environment Departments 5
4.2 Responsibility of On-Call Representatives 6
4.3 Follow-up Reporting 6
4.4 Summary of Policy Reporting 7
4.5 Using this procedure 7
4.5.1 Determining if a Release is Reportable under RCRA 8
4.5.2 Determining if a Release is Reportable under TSCA 8
4.5.3 Determining if a Release is reportable under the CWA NMWQA, and NMWQCC 9
4.5.3.1 Reporting Requirements for Petroleum Storage Tanks 11
4.5.3.2 Reporting Requirements under the NPDES Pesticide General Permit 12
4.5.4 Determining if a Release is Reportable under CERCLA or EPCRA 13
4.5.4.1 Regulatory Classification of the Released Material 14
4.5.5 Determining Release Impacts to Biological or Cultural Resources 15
4.5.6 Reporting a Release or Event 16
4.5.7 Steps to Notify LANL Management, the Laboratory Tribal Liaison, and Department of Energy Los Alamos Field Office (NA-LA) 17
5.0 Training 18
6.0 Records 18
7.0 Definitions and Acronyms 19
7.1 Definitions 19
7.2 Acronyms 20
8.0 References 22
9.0 Appendices 23
10.0 Attachments 23
Attachment 1: Emergency Notification Requirements for RCRA 24
Attachment 2: Summary of Emergency Release or Event Reporting Requirements 25

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

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.

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.

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

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.

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:

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.

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.

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).

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.

[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.

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.

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;

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.

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

  - 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	☒	☐
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	☒	☐

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.

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

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

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

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

New Mexico Environment Department Groundwater Discharge Permit DP-1589

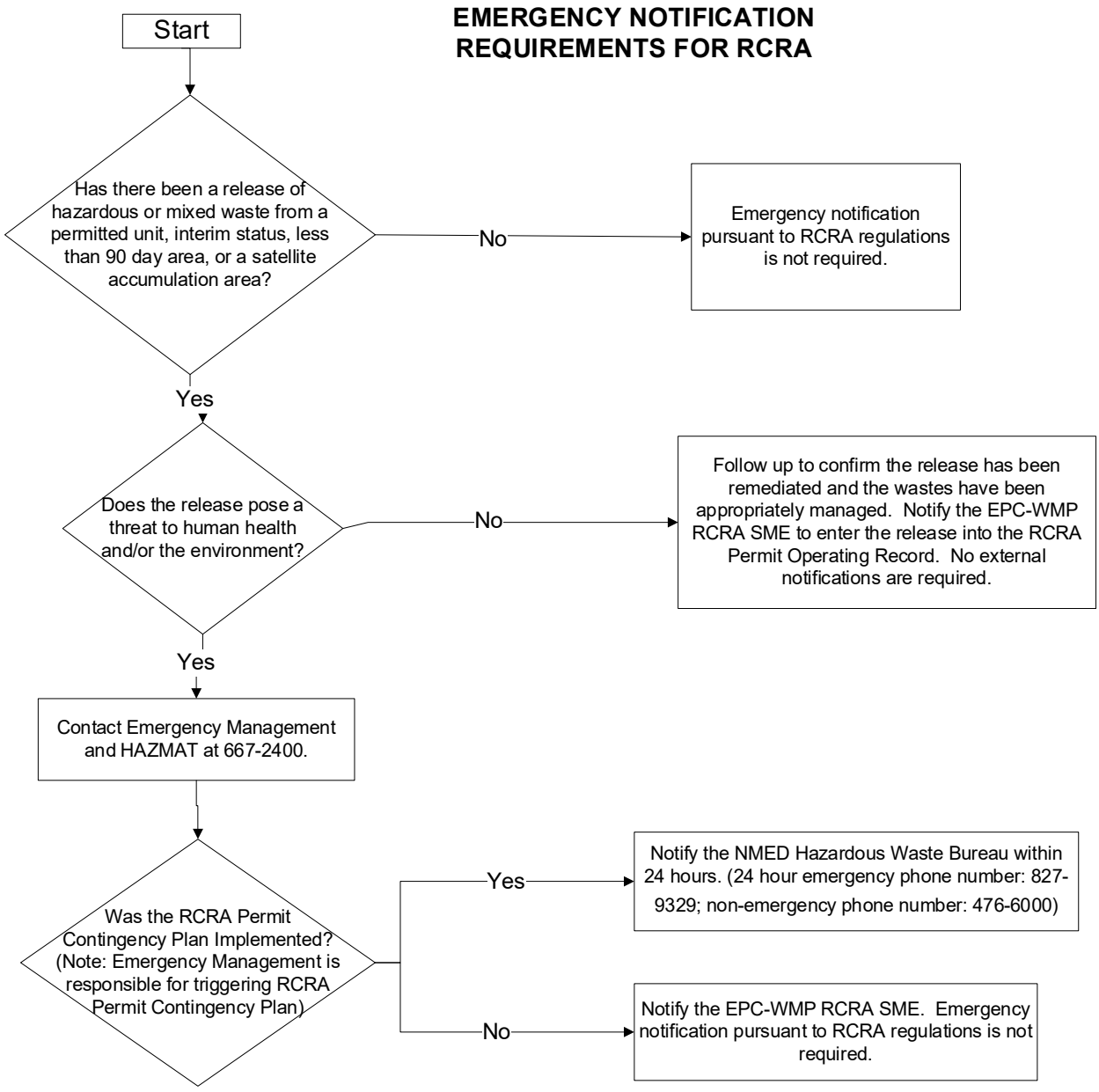
New Mexico Administrative Code (NMAC) 20.5.7

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



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)

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.

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.

ATTACHENT 22: EPC-CP-QP-1007, *UNPLANNED RELEASES*

EPC-CP-QP-1007	Revision: **1**	Los Alamos NATIONAL LABORATORY
Effective Date: 06/06/2023	Next Review Date: 06/06/2026	

Environment, Safety, Health, and Quality Directorate

Environment Protection and Compliance – Compliance Programs Group

Quality Procedure

Unplanned Releases

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	06/05/2023

Derivative Classifier: ☒ **Unclassified or** ☐ _____

Name:	Organization:	Signature:	Date:
Steve Wolfel	EPC-CP	Signature on File	06/06/2023

Approval Signatures:

Responsible Line Manager:	Organization:	Signature:	Date:
Sarah Holcomb, Team Leader	EPC-CP	Signature on File	06/06/2023
Responsible Line Manager:	Organization:	Signature:	Date:
Steve Story, Group Leader	EPC-CP	Signature on File	06/06/2023

This copy is uncontrolled.
Users are responsible for ensuring they work to the latest approved version.
To document a required read, Login to UTrain, and go to the Advanced Search.

REVISION HISTORY

Document Number and Revision *[Include revision number, beginning with Revision 0]*	**Effective Date** *[Document Control Coordinator inserts effective date]*	**Description of Changes** *[List specific changes made since the previous revision]*
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.
EPC-CP-QP-1007, R1	06/06/2023	Renaming of procedure from *Spill Investigations* to *Unplanned Releases*, to distinguish from planned releases; text changes made to reflect current operating practices; update of contact list due to personnel changes.

Table of Contents

Revision History 2
1.0 Introduction 4
1.1 Purpose 4
1.2 Scope 4
1.3 Applicability 4
1.4 Authority 4
2.0 Precautions and Limitations 5
2.1 Precautions 5
2.2 Limitations 5
3.0 Prerequisite Actions 6
3.1 Planning and Coordination 6
3.2 Performance Documents 6
3.3 Special Tools, Equipment, Parts, and Supplies 6
4.0 Performing UNPLANNED RELEASE Investigations 7
4.1 Notification of an Unplanned Release 7
4.2 Notifications, Documentation, and Record Keeping 9
4.2.1 Notifications 9
4.2.1.2 Reportable Releases 10
4.2.2 Documentation 10
4.2.2.1 Documentation for Non-Reportable Releases 10
4.2.2.2 Documentation for Reportable Releases 10
4.2.3 Recordkeeping 11
5.0 Training 11
6.0 Records 11
7.0 Definitions and Acronyms 11
7.1 Definitions 11
7.2 Acronyms 12
8.0 References 12
9.0 Attachments 12
Attachment 1: Contact List 13
Attachment 2: Unplanned Release Report, EPC-CP-QP-1007-Form 1 16
Attachment 3: 7/15 Day Release Report, EPC-CP-QP-1007-Form 2 17

1.0 INTRODUCTION

All 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 unplanned releases and coordination of corrective actions are delegated to the Environmental Protection and Compliance Division's Compliance Programs Group (EPC-CP). An unplanned release, as used in this document, is defined as any unpermitted spilling, leaking, pumping, pouring, emitting, emptying, discharging, escaping, leaching, or unauthorized dumping of liquid or other material, including potable water, that may be a potential pollutant to water quality or that could result in adverse impact to the environment; excluding: 1) emissions from engine exhaust from any vehicle; 2) normal application of fertilizers, pesticides and deicing solutions.

NOTE

For PLANNED discharges of potable water or steam condensate contact EPC-CP Water Quality Permitting/Compliance SME for NMWCC-Planned Releases to ensure proper procedures are followed and appropriate documentation is completed.

1.1 Purpose

This EPC-CP procedure describes the steps for performing unplanned release investigations throughout LANL.

1.2 Scope

The scope of this procedure is limited to the performance of unplanned release responses by EPC-CP personnel and/or authorized subcontractors. Activities include unscheduled site visits to any area of the Laboratory upon notification or discovery of an unplanned release as support staff for the on-scene Incident Response Commander (IRC), Deployed Environmental Professional (DEP) staff, or Facility Operations Directorate (FOD) designated facility representative. Support activities include evaluation and documentation of the 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 unplanned release 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 unplanned release 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 and area to be inspected.
- 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).

NOTE

SAFETY is a priority when responding to, and mitigating unplanned releases. If a safety issue exists that could potentially endanger personnel investigating the event or mitigating the release, contact the Emergency Operations Support Center (EOSC) at 667-2400 for support.

2.2 Limitations

Limitations are defined boundaries (i.e., training, hold points) that are NOT to be exceeded while preforming 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 Operations – (EM-OPS) personnel or site personnel at all times.
- 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 unplanned releases have 15-minute and 24-hour verbal notification requirements. Personnel using this procedure must be familiar with the reporting requirements of EPC-CP-QP-0903, Environmental Reporting Requirements for Releases or Events.

Note

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. If the owner of the release is not associated with Triad, refer the caller to the EOSC at 667-2400. If the release is determined to belong to N3B, a courtesy notification shall be made to the Prime Contract, Interface, and Policy Office – Division Office (PCIP-DO) regarding location and details of the release.

3.0 PREREQUISITE ACTIONS

3.1 Planning and Coordination

The response to 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.,WFO operational areas).
- Coordination with Access Control and/or Security for escort, keys, safety (e.g., explosives areas, burn grounds, between security fences), two-way radios.
- Security Clearance (i.e., TA-3-66, TA-55, TA-8, 9, 14, 15, 16, 39, 40, 49).

Site access for unplanned release response will require that the EPC-CP Investigator maintain a security clearance and multiple site-specific training requirements. It will also require that the Investigator coordinate with the EOSC, designated FOD representative, and/or Deployed Environmental Professional (DEP).

3.2 Performance Documents

The following documents are required to perform this procedure:

- EPC-CP-QP-1007 Form 1, Unplanned Release Report (Attachment 2).
- EPC-CP-QP-1007 Form 2, 7/15 Day Release Report (Attachment 3).
- EPC-CP-QP-0903, Environmental Reporting Requirements for Releases or Events.

3.3 Special Tools, Equipment, Parts, and Supplies

Ensure the following are available for responding to release notifications:

- 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 – the EPC-CP spills team maintains the 664-7722 pager; notifications can be configured to send alerts to wireless pagers, government cell phones and e-mail.
- External dosimeter (as required by site or facility).
- EPC-CP-QP-1007 Form 1 - to record pertinent information about the release, i.e., time and date of release, location and source of release, type of material released, quantity of material released, impacted media, quantity of waste generated, 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 UNPLANNED RELEASE INVESTIGATIONS

4.1 Notification of an Unplanned Release

EPC-CP personnel that respond to, and conduct unplanned release investigations must: 1) ensure that the immediate mitigation of releases occurs (i.e., isolation of active leaks, deployment of absorbent controls or secondary containment, etc.); 2) provide timely notification to appropriate regulatory organizations in the event that the unplanned discharge meets reportable criteria as described in EPC-CP-QP-0903. EPC-CP provides 24-hr support and response to all notifications of an unplanned release; and 3) provide guidance to facility personnel on spill mitigation and cleanup.

4.1.1 Notification and Response to a 7-2400 (EOSC) PAGE

A **PAGE** from 7-2400 is a notification from the EOSC dispatcher of a release or event that may require EPC-CP presence on site. A **PAGE** from the EOSC will nearly always involve a response by HAZMAT personnel. The EPC-CP representative will need to perform the following steps when receiving this type of **PAGE**.

[1] Call 667-2400 and collect information of the event from the EOSC dispatcher. Note that this information should be regarded as preliminary, as more definitive information will be available when first responders arrive at the site and can fully assess the event. At a minimum, collect the following information from the EOSC dispatcher:

a) Verify if an EPC-CP on-site presence is requested. Some notifications (i.e., HAZMAT chemical characterizations or assessments) may not require an EPC-CP representative to be on site.

b) Location of the release (i.e., Technical Area, building number, outside or inside of structure, mile post number, etc.). Based on location, determine what access requirements are applicable (i.e., Clearance Level, Site Specific training, escorting, etc.).

c) Type, volume and source of the release. Based upon the material spilled and location, determine the appropriate PPE for the site visit (i.e., steel toed boots, safety glasses, hard safety, safety vest, etc.).

d) Name and cell phone number of the IRC responding to the release.

[2] Travel to the release location and report to the IRC to receive a site-specific safety and security briefing.

[3] Assess and evaluate the nature and extent of the release. Inspect the site to ensure that the extent is adequately defined; identify any impacts to watercourses, SWMUs, and evidence of erosional impacts as a result of the release.

[4] Provide support and guidance to EM-OPS, HAZMAT and Facility personnel on release mitigation measures and requirements.

[5] Determine if samples will be required and coordinate with the WMC representative for preparation and submittal of a Request For Analysis (RFA). Note that for reportable releases where corrective actions involve significant removal of soil or surface materials, analytical confirmation samples may be required for submittal to regulators to justify administrative closure of the event.

[6] Provide the final inspection of the site to verify that corrective actions were adequate and are complete. Once the release has been mitigated, the IRC will release the site back to the controlling FOD.

4.1.2 Notification and Response to Non-EOSC PAGES and Phone Calls

Notifications may be received by PAGER or phone calls directly to the EPC-CP representative. Upon receiving this type of notification, the EPC-CP representative will need to perform the following steps:

[1] Call the phone number indicated on the PAGER or respond directly to the caller on the phone. Collect the following information:

a) identity of caller.

b) exact location of observed release.

c) material released and estimated volume, flow rate, or approximate surface area of release.

[2] Based on the preliminary information received, assess whether on-site resources will be sufficient to mitigate the release. Notify the EOSC if the assessment determines that the release volume or impacted area appears to be beyond the capability of on-site personnel and resources, or, if the release involves an unknown chemical or hazardous material, if the release involves a large volume of petroleum product, if the release threatens to migrate offsite or impact a watercourse or

storm drain, if vehicular traffic control is needed to safely remediate the release. If the EOSC determines an IRC is needed on site, then return to section 4.1.1 and proceed with the response and investigation as outlined.

[3] Proceed to the site and provide guidance to the FOD designee, waste management coordinator (WMC), and/or DEP regarding the containment and/or cleanup of the release. Examples of the types of guidance to provide include the following:

a) Inspect the site to ensure that the extent of the unplanned release is adequately defined.

b) Recommend corrective actions.

c) Recommend how to stabilize the site for further remediation (i.e., BMPs, absorbent controls, secondary containment, etc.).

d) Identify watercourse boundaries, SWMUs, PRSs near or at the release site.

e) Provide the final inspection of the site to verify that the corrective actions were adequate and complete.

NOTE

The Spill Investigator may respond to the unplanned release and determine that the containment and remediation is beyond the capability of the designated FOD representative, DEP, and/or WMC to respond. The EOSC should be contacted if additional technical expertise or materials are needed to remediate the release.

NOTE

If the release is low volume of a known material, the delegated FOD representative, DEP or WMC may remediate the release without the EPC-CP spill representative being present. The designated FOD rep, DEP or WMC will complete the Unplanned Release Report (EPC-CP-QP-1007 Form 1) and submit a copy to the EPC-CP spill team lead for record keeping.

4.2 Notifications, Documentation, and Record Keeping

4.2.1 Notifications

4.2.1.1 Non-Reportable Releases

If the release is determined to be non-reportable, an e-mail notification shall be made by the EPC-CP investigator to the EPC-CP Water Quality Team Lead, EPC-CP Group Leader, and applicable internal stakeholders. Include the following information in the e-mail: date of release or discovery, location, quantity, and type of material, and corrective actions taken to mitigate and remediate the release.

4.2.1.2 Reportable Releases

If the release is determined to be reportable, the EPC-CP spill team lead, or delegated EPC-CP on-call representative shall make the following notifications in the order described. A current contact list is provided in Attachment 1 of this procedure.

[1] E-mail notification to EPC-CP Group and Division Management, and internal stakeholders (i.e., EPC-CP Water Quality Team Lead and Permit SMEs, FOD and/or designated FOD representative). include all pertinent facts:

a) date, time of release or discovery, location of release

b) quantity and type of material

c) status of corrective actions

d) criteria that were met to classify the release as reportable

[2] Verbal notification to the DOE-NNSA representative explaining that a reportable release has occurred and 24-hr verbal notifications will be made to the appropriate regulatory agencies.

[3] 24-hr verbal notifications to the New Mexico Environment Department (NMED) Ground Water Quality Bureau (GWQB), Surface Water Quality Bureau (SWQB), and Hazardous Waste Bureau (HWB). If the release is reportable and has occurred after-hours on Friday or Saturday, the On-Call EPC-CP representative is responsible for making the required regulatory verbal notifications. If the release occurs on Sunday or weekdays the 24-hr verbal notifications will be made by the EPC-CP spill team lead.

CAUTION

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.

4.2.2 Documentation

4.2.2.1 Documentation for Non-Reportable Releases

If the release is non-reportable, then EPC-CP-QP-1007 Form 1 must be completed in its entirety and submitted to the EPC-CP spill team lead within five working days for record keeping.

4.2.2.2 Documentation for Reportable Releases

If the release is reportable, the EPC-CP spill team lead will document the release on EPC-CP-QP-1007 Form 2, 7/15 Day Release Report. The completed form will be reviewed and assigned an LA-UR document release number and submitted to the appropriate regulatory agencies and internal

stakeholders within the required 7 and 15 day time frames. If corrective actions have been completed, administrative closure may be requested in the 7 or 15 day reports. Otherwise, closure will be requested via formal letter when corrective actions have been completed.

4.2.3 Recordkeeping

All unplanned release documentation, reportable and non-reportable, are electronically stored in an Access spills database located at ENV(\\dcstorage.lanl.gov):\CP\WQ\WQCC_COMP_PRPG\Spills. EPC-CP-QP-1007 Form 1 and Form 2, as well as all regulatory letter correspondence are linked to each unplanned release event and stored in the database. The database is maintained by the spill team leads who have access permission for data entry.

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 ESHQ-AP-006, R0 ESHQ *Records Management Procedure*. 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, *EPC-CP Unplanned Release Report*	☒	☐
EPC-CP-QP-1007 Form 2, *EPC-CP 7/15 Day Release Report*	☒	☐
Correspondence (i.e.,formal written communication to and from the New Mexico Environment Department)	☒	☐
Correspondence - E-mail Submittals of 7/15 Day Release Reports to NMED	☒	☐

7.0 DEFINITIONS AND ACRONYMS

7.1 Definitions

See LANL *Definition of Terms*.

7.2 Acronyms

See LANL Acronym Master List.

8.0 REFERENCES

ESHQ-AP-006 R0, ESHQ Records Management Procedure

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: Contact 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*

Attachment 1: Contact List

LANL Primary		
POC	**Phone No.**	**E-Mail**
Emergency Operations Support Center	(505) 667-2400	
EPC-CP Spills Pager	(505) 664-7722	
WM-WGS Response Pager	(505) 664-5864	
EPC-DO	(505) 667-5466	andiek@lanl.gov
EPC-CP Group Lead	(505) 412-5659	story@lanl.gov
EPC-CP WQ Team Lead	(505) 396-0866	sholcomb@lanl.gov

Regulatory		
New Mexico Environment Department 24/7 - Non-Emergency Hotline 24/7 - Emergency Hotline	 (866) 428-6535 (505) 827-9329	
Ground Water Quality Bureau Gerald Knutson Andrew Romero (DP 1132/any RLWTF releases)	(505) 827-2900 (505) 660-7189 (505) 660-8624	 Gerald.Knutson@env.nm.gov AndrewC.Romero@env.nm.gov
Surface Water Quality Bureau Levi Dean	(505) 827-0187 (505) 365-3337	 Levi.Dean@env.nm.gov
Hazardous Waste Bureau Stephen Connolly	(505) 476-6000 (505) 470-8495	 Stephen.connolly@env.nm.gov
US EPA Region 6 Nancy Williams	(800) 887-6063 (214) 665-7179	 Williams.nancy@epa.gov
24-hr National Response Center	(800) 424-8802	

Department of Energy - NNSA		
Karen Armijo	(505) 221-3664	Karen.armijo@nnsa.doe.gov
Robert Gallegos	(208) 569-0377	Robert.gallegos@nnsa.doe.gov

Interface and Policy Office/Newport News Nuclear BWXT Los Alamos (N3B)		
Craig Douglass (Triad)	(505) 231-9478	craigd@lanl.gov
N3B Operations Center	(505) 551-2954	
Steve Maze (N3B) OPS Manager	(505) 309-1354	Steve.maze@em-la.doe.gov

Additional Resources
Environmental Contact List (SMEs) https://int.lanl.gov/org/ddops/aldeshq/environmental-waste-programs/_assets/docs/environmental-contacts.pdf
EPC-CP On-Call Schedule https://int.lanl.gov/org/ddops/aldeshq/environmental-waste-programs/_assets/docs/EPC-OnCall-Schedule.pdf
Attachment 1 - continued
WM-WGS On-Call Schedule https://int.lanl.gov/org/ddops/aldeshq/environmental-waste-programs/waste-management-programs/_assets/docs/emergency-on-call-WMC-calendar.pdf
Deployed Environmental Professional List https://int.lanl.gov/org/ddops/aldeshq/environmental-waste-programs/compliance-programs/env_pros.shtml
RQ Calculator https://rqcalculator.projectenhancement.com

Additional LANL Support		
UI-OPS Randy Vigil (for potable and sanitary wastewater releases) David Trujillo (LOG vehicles; roadway releases)	 (505) 695-8900 (505) 412-9523	 rvigil@lanl.gov dtrujillo@lanl.gov
LOG-HERG (Roads and Grounds) Bernadette Lopez	 (505) 695-3799	 lopez_b@lanl.gov
IF-OPS Bill Gorman (building related releases)	 (505) 695-8993	 wgorman@lanl.gov

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:**	**Group:**
Spill Owner Details (Specify):	☐ TRIAD, LLC	☐ Subcontractor:_____	☐ Other:_____
Date of Spill/Date Spill Discovered:			
Location:			
Material Spilled:	☐ Hydraulic Fluid ☐ Potable Water ☐ Diesel	☐ Anti-freeze/coolant ☐ Steam Condensate ☐ Lubricants/Oils	☐ Refrigerant Oil ☐ Gasoline ☐ Other: _____
Volume Spilled:		**Waste Volume Generated:**	
Source of Spill: Vehicle ID: Equipment ID:		☐ Potable Water Line ☐ Fire Suppression System ☐ Fuel Tank	☐ Radiator ☐ Condensate Line ☐ 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) ☐ RCRA Treatment Storage Disposal Facility ☐ RCRA Satellite Accumulation Area ☐ RCRA <90 Day Storage Area ☐ NPDES MSGP Facility		☐ Floor Drain, if so please indicate affected facility _____ ☐ Watercourse/drainage area, if so please indicate _____ ☐ Solid Waste Management Unit/Area of Concern, if so please indicate _____ ☐ None	
Did the spill occur inside or outside a building?	☐ Inside ☐ Outside		
Did the spill occur on: (Check as many as apply)	☐ Concrete ☐ Carpeted Floor ☐ Tile ☐ Wooden Floor/Deck	☐ Asphalt ☐ Graveled/Rocky Area ☐ Soil/Vegetated Area ☐ Other: _____	
Samples Collected: ☐ None ☐ Water	☐ Soil ☐ Air ☐ Other: _____	If samples were collected, indicate analytical suite:	
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 **Date Received:**	**Severity Index:**	**Causal Analysis:**	☐ Non-Reportable ☐ Reportable

EPC-CP-QP-1007 Form 1 Return Completed Form to EPC-CP (spearson@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-

Permit Number: NM0028355

Calendar Year

NPDES or Operational Spill/Release ☐
ER Spill/Release ☐
Other Spill/Release ☐
Indicate with "X" in appropriate box.

Release ID Number:

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: Date & Time

Discharge Discovered: Date & Time

Discharge Stopped: Date & Time

Cleanup Started: Date & Time

Cleanup Completed: 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:					
NMED/SWQB:					
NMED/GWQB:					
NMED/HRMB:					
NMED/DOE-OB:					
EPC-CP:					
DOE:					
OTHER:					
OTHER:					

Comments:

Form Completed By:

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: **1**	Los Alamos NATIONAL LABORATORY
Effective Date: 06/15/2023	Next Review Date: 06/15/2026	

Environment, Safety, Health, and Quality 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	05-26-2023

Derivative Classifier: ☒ **Unclassified or** ☐ _____

Name:	Organization:	Signature:	Date:
Steven E. Wolfel	EPC-CP	Signature on File	05-30-2023

Approval Signatures:

EPC-CP- Reviewer:	Organization:	Signature:	Date:
Alethea Banar	EPC-CP	Signature on File	05-30-2023
EPC-CP Reviewer:	Organization:	Signature:	Date:
Terrill W. Lemke, Team Leader	EPC-CP	Signature on File	06-14-2023
EPC-CP RLM:	Organization:	Signature:	Date:
Steve Story, Group Leader	EPC-CP	Signature on File	06-15-2023

This copy is uncontrolled.
Users are responsible for ensuring they work to the latest approved version.
To document a required read, Login to UTrain, and go to the Advanced Search.

REVISION HISTORY

Document Number and Revision	Effective Date	Description of Changes
EPC-CP-QP-2110, Rev. 0	01/07/2020	New document
EPC-CP-QP-2110 R1	06/15/2023	This document supersedes EPC-CP-QP- 2110 R0. Reviewed and revised to the new 2021 MSGP language and requirements. Updated Sections 1.0, 1.1, 1.2, 3.0, 3.2, 4.1, 4.2, 5.0, 6.0, 7.0, 8.1, 8.2, 9.0, Attachment 1 and Attachment 2. Permit section references and language updated in Sections 1.1, 4.2, 5.0, 8.1, 8.2, Attachment 1, and Attachment 2. Updated checklist to new MSGP sections and language.

Table of Contents

Revision History 2
1.0 Introduction 4
1.1 Purpose 4
1.2 Scope 4
1.3 Applicability 4
2.0 Precautions and Limitations 4
3.0 Preparing an MSGP Stormwater Pollution Prevention Plan 4
3.1 Gathering Information for the SWPPP 5
3.2 Preparing the SWPPP 5
4.0 Maintaining the MSGP SWPPP 7
4.1 Availability of the MSGP SWPPP 7
4.2 Additional Documentation Requirements 7
5.0 Revising the MSGP SWPPP 8
6.0 Training 10
7.0 Records 10
8.0 Definitions and Acronyms 11
8.1 Definitions 11
8.2 Acronyms 11
9.0 References 11
10.0 Attachments 12
Attachment 1: EPC-CP-QP-2110 R1 Form 1, MSGP SWPPP Template Example 13
Attachment 2: MSGP SWPPP Review Guidance Checklist Example 66

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 at 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 documented in a SWPPP. The SWPPP is intended to document the selection, design, and installation of stormwater control measures (SCM) to meet permit effluent limits. Additional documentation required by the Permit is kept with the SWPPP (including inspection reports, maintenance activities, monitoring results, and conditions requiring corrective action and AIM responses) and is intended to document the implementation of permit requirements.

1.2 Scope

This procedure contains information and specific steps for preparing and revising a SWPPP and identifying and documenting conditions to meet Permit requirements. Part 6 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. Additional documentation required to be kept with the SWPPP can be found in Part 6.5 of the Permit.

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 6 of the Permit contains the specific requirements for developing, maintaining, and revising a SWPPP. At a minimum, the SWPPP will contain the following elements:

- Stormwater pollution prevention team (Stormwater PPT);
- Site description (including a site map);
- Summary of potential pollutant sources;

- Description of stormwater control measures;
- 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 R1 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.

[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 Stormwater 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. Refer to the 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, Subpart 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 or the author can print and scan an electronic signature as a pdf to insert it into the document. The RASSTI system adds a cover page to the document containing the Los Alamos Unlimited Release or LA-UR number, which obviates all electronic signatures due to the document change.

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 Electronic Public Reading Room internet web page. Refer to Part 6.4 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] Specify that the document falls under the Environmental Designated Unclassified Subject Area, or DUSA, system.

NOTE 1: To take advantage of the DUSA, a DUSA trained author is required to submit the SWPPP. If this does not occur, the document will undergo **full classification review**, which takes a week. In this situation, a derivative classifier will need to be identified in the system.

[c] Identify a line manager for an approval signature.

[d] 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 6.5 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;

  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 stormwater control measures (refer to Part 2.1.2.3 of the Permit);
- All inspection reports, including Routine Facility Inspection Reports (refer to Part 3.1.6 of the Permit) and Quarterly Visual Assessments (refer to Part 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 and 4.1 of the Permit);
- Corrective action documentation (refer to Part 5.1 of the Permit);
- Documentation of any benchmark threshold exceedances, the AIM level triggered, and associated response (refer to Part 5.2 of the Permit);
- Rationale that SWPPP/SCM changes are unnecessary.
- Documentation required to meet any AIM exception (refer to Part 5.2.6 of the Permit);
- 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 with respect to the requirements to conduct routine facility inspections (refer to Part 3.1.5 of the Permit), quarterly visual assessments (refer to Part 3.2.4.4 of the Permit), benchmark monitoring (refer to Part 4.2.2.5 of the Permit), and/or impaired waters monitoring (refer to Part 4.2.5.2 of the Permit).

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 5.1.1 and 5.1.2 of the Permit).

The SWPPP must also be modified based on corrective actions and deadlines required under Part 5 of the Permit and documented in accordance with Part 5.3 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 stormwater control measures.
- Sources of pollution.
- 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 and Part 8.D.6 of the Permit);
- Stormwater control measures are not stringent enough for discharge to be controlled as necessary such that the receiving water of the United States will 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, SCM removal or installation, outfall removal or creating a new outfall, changing drainage pathways or the path of stormwater flow.

- If quarterly benchmark monitoring results indicate an AIM triggering event has occurred.

[3] The Stormwater PPT must determine the modification(s) to be made to implement or maintain stormwater 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, Subpart 11 of the Permit.

6.0 TRAINING

The following personnel require training before implementing this procedure.

- 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. Other participating LANL groups may require training documentation pursuant to local procedures. All training will be assigned and tracked using the LANL training management system, UTrain.

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. Records must be maintained in accordance with P1020-1, *Laboratory Records Management*.

Below, are records generated as a result of implementing this procedure and are identified by title and type.

Record Title	QA Record	Non-QA Record
Stormwater Pollution Prevention Plan	☒	☐
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 stormwater control or other method (including narrative 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.

AIM	Additional Implementation Measures
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
RASSTI	Review and Approval System for Scientific and Technical Information
SCM	Stormwater Control Measure
SWPPP	Stormwater Pollution Prevention Plan
PDF	Portable Document Format
PPT	Pollution Prevention Team

9.0 REFERENCES

Unites States Environmental Protection Agency (EPA) National Pollutant Discharge Elimination System (NPDES) Multi-Sector General Permit for Stormwater Discharges Associated With Industrial Activity (MSGP), March 1, 2021

Federal Register, National Pollutant Discharge Elimination System (NPDES) 2021 Issuance of the Multi-Sector General Permit for Stormwater Discharges Associated With Industrial Activity. Federal Register: February 19, 2021, Volume 86, Number 32

Clean Water Act, Title 33 U.S.C. 1251

P1020-1, Laboratory Records Management

EPC-CP-PIP-2101, NPDES Multi-Sector General Permit Program

10.0 ATTACHMENTS

Attachment 1: EPC-CP-QP-2110 R1 Form 1, MSGP SWPPP Template Example

Attachment 2: MSGP SWPPP Review Guidance Checklist Example

MSGP Stormwater Pollution Prevention Plan

Insert Facility Name

Triad National Security, LLC
Los Alamos National Laboratory

XX/XX/XXXX

Revision X

Attachment 1: EPC-CP-QP-2110 R1 Form 1, *MSGP SWPPP Template Example* (cont.)

(Page 2 of 53)

Page intentionally blank

Attachment 1: EPC-CP-QP-2110 R1 Form 1, *MSGP SWPPP Template Example* (cont.)

(Page 3 of 53)

TABLE OF CONTENTS

PREFACE 6

1.0 FACILITY DESCRIPTION 6
1.1 Facility Information 6
1.2 Stormwater Pollution Prevention Team (PPT) 7
1.3 Site Description 8
1.4 General Location Map 8
1.5 Site Map 8

2.0 POTENTIAL POLLUTANT SOURCES 9
2.1 Potential Pollutants Associated with Industrial Activity 9
2.2 Spills and Leaks 9
2.3 Unauthorized Non-Stormwater Discharges 10
2.4 Salt Storage 10
2.5 Historical Data Summary 10

3.0 STORMWATER CONTROL MEASURES 11
3.1 Non-Numeric Technology-Based Effluent Limits 11
3.1.1 Minimize Exposure 11
3.1.2 Good Housekeeping 11
3.1.3 Maintenance 11
3.1.4 Spill Prevention and Response 12
3.1.5 Erosion and Sediment Control 12
3.1.6 Management of Runoff 13
3.1.7 Salt Storage Piles or Piles Containing Salt 13
3.1.8 Dust Generation and Vehicle Tracking of Industrial Materials 13
3.2 Numeric Effluent Limitations Based on Effluent Limitations Guidelines 13
3.3 Water Quality-Based Effluent Limitations and Water Quality Standards 13

4.0 SCHEDULES AND PROCEDURES 13
4.1 Good Housekeeping 14
4.2 Maintenance 14
4.3 Spill Prevention and Response 14
4.4 Erosion and Sediment Control 14
4.5 Employee Training 14
4.6 Routine Facility Inspections and Quarterly Visual Assessments 15

Attachment 1: EPC-CP-QP-2110 R1 Form 1, *MSGP SWPPP Template Example* (cont.)

(Page 4 of 53)

4.6.1 Routine Facility Inspections 15
4.6.2 Quarterly Visual Assessments 16
4.7 Monitoring 17

5.0 DOCUMENTATION FOR ELIGIBILITY CONSIDERATIONS UNDER OTHER FEDERAL LAWS 20

5.1 Endangered Species 20

5.2 Historic Properties 20

6.0 CORRECTIVE ACTIONS AND DEADLINES 20

6.1 Immediate Actions 21

6.2 Subsequent Actions 21

6.3 AIM Baseline Status and Triggering Events 22

6.3.1 AIM Level 1 22
6.3.2 AIM Level 2 22
6.3.3 AIM Level 3 23
6.3.4 AIM Exceptions 23
6.4 Corrective Action and AIM Documentation 24

7.0 ACRONYMS 24

8.0 SWPPP CERTIFICATION 26

FIGURE A: GENERAL LOCATION MAP 27

FIGURE B: MAP(S) 28

ATTACHMENT 1: NOTICE OF INTENT, SUPPORTING DOCUMENTATION, AND UPDATES 29

ATTACHMENT 2: SWPPP AMENDMENTS 30

ATTACHMENT 3: CERTIFICATION OF NO UNAUTHORIZED STORMWATER DISCHARGES 31

ATTACHMENT 4: DULY AUTHORIZED SIGNATORY MEMORANDUM 32

ATTACHMENT 5: DISCHARGE MONITORING REPORTS 33

ATTACHMENT 6: ANNUAL REPORTS 34

ATTACHMENT 7: ROUTINE FACILITY INSPECTIONS 35

ATTACHMENT 8: QUARTERLY VISUAL ASSESSMENTS 36

ATTACHMENT 9: CORRECTIVE ACTION DOCUMENTATION AND CERTIFICATION 37

Attachment 1: EPC-CP-QP-2110 R1 Form 1, *MSGP SWPPP Template Example* (cont.)

(Page 5 of 53)

ATTACHMENT 10: SCHEDULED MAINTENANCE LOG 38

ATTACHMENT 11: TRAINING DOCUMENTATION 39

ATTACHMENT 12: MSGP (OR ACTIVE URL) 40

ATTACHMENT 13: THREATENED AND ENDANGERED SPECIES HABITAT MANAGEMENT PLAN FOR LOS ALAMOS NATIONAL LABORATORY 41

ATTACHMENT 14: MSGP IPAC TRUST RESOURCES REPORT 42

ATTACHMENT 15: EPC-CP-PIP-2101, *NPDES MULTI-SECTOR GENERAL PERMIT* 43

ATTACHMENT 16: EPC-CP-QP-2108, *MSGP ROUTINE FACILITY INSPECTIONS* 44

ATTACHMENT 17: EPC-CP-QP-2109, *MSGP CORRECTIVE ACTIONS* 45

ATTACHMENT 18: EPC-CP-QP-2105, *MSGP STORMWATER VISUAL ASSESSMENTS* 46

ATTACHMENT 19: EPC-CP-QP-2103, *INSPECTING STORMWATER RUNOFF SAMPLERS AND RETRIEVING SAMPLES FOR THE MSGP* 47

ATTACHMENT 20: EPC-CP-QP-2106, *PROCESSING MSGP STORMWATER SAMPLES* 48

ATTACHMENT 21: EPC-DO-QP-0930, *ENVIRONMENTAL REPORTING REQUIREMENTS FOR RELEASES OR EVENTS* 49

ATTACHMENT 22: EPC-CP-QP-1007, *SPILL INVESTIGATIONS* 50

ATTACHMENT 23: EPC-CP-QP-2110, *MSGP STORMWATER POLLUTION PREVENTION PLAN PREPARATION AND MAINTENANCE* 51

ATTACHMENT 24: LOCAL PROCEDURE 52

ATTACHMENT 25: LOCAL PROCEDURE 53

Attachment 1: EPC-CP-QP-2110 R1 Form 1, *MSGP SWPPP Template Example* (cont.)

(Page 6 of 53)

Insert Facility Name
MSGP Stormwater Pollution Prevention Plan
Document Reference Number
Revision X, Date

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, January 2021) 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 MSGP 2021 [Triad National Security, LLC (Triad)]. Click here to view contents of the 2021 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 February 28, 2026.

1.0 FACILITY DESCRIPTION

1.1 Facility Information

Name of Facility: (Insert facility name e.g., TA-03-0038 Metal Fabrication Shops)		
Street: P.O. Box 1663		
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 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), Mortandad Canyon (within LANL); Cañon de Valle (below LANL Gage E256); or Arroyo de la Delphe (Above Kieling Springs to headwaters). **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 2021 MSGP, Appendix A)? ☒Yes No		
Pollutants causing the impairment: (Insert pollutants: list can be found in the Triad Notice of Intent (NOI)		

Attachment 1: EPC-CP-QP-2110 R1 Form 1, *MSGP SWPPP Template Example* (cont.)

(Page 7 of 53)

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)? ☐Yes ☒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
Deployed Environmental Professional (DEP): Name or Title, Organization	Responsible for the support and oversight 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 and regularly communicates with facility and operations personnel, as well as the PPT, 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 that they understand immediate action is required to correct the non-compliance.
Facility Operations Division (FOD) Manager: Name or 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 the FOD propose new processes, operations, features, or a new site that may be subject to the MSGP. This Manager is key to ensuring adequate communication and coordination of issues regarding implementation of the MSGP and this Plan.

Attachment 1: EPC-CP-QP-2110 R1 Form 1, *MSGP SWPPP Template Example* (cont.)

(Page 8 of 53)

EPC Core: Name or 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 or 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), main structures, activities, outfalls, and substantially identical discharge points.

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 2021 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.
- **Direction of stormwater flow and site drainage.** Direction of flow is indicated with arrows.
- **Locations of stormwater control measures (SCMs).**

Attachment 1: EPC-CP-QP-2110 R1 Form 1, *MSGP SWPPP Template Example* (cont.)

(Page 9 of 53)

- **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 is 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

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

Attachment 1: EPC-CP-QP-2110 R1 Form 1, *MSGP SWPPP Template Example* (cont.)

(Page 10 of 53)

Insert information on spill and leak history at the facility, if any. Text may be in table format as shown below or include this table in Attachment 24 (as stated in the text above).

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-2109, *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

All Triad sampling data collected at this facility during the previous permit term is contained in prior SWPPP revisions.

The following table provides monitoring data at the facility for the past year.

Permitted Facility: (insert facility name)

Calendar Year (CY) XXXX

Contact MSGP Program Lead to obtain this information formatted for insertion.

Attachment 1: EPC-CP-QP-2110 R1 Form 1, *MSGP SWPPP Template Example* (cont.)

(Page 11 of 53)

NOTE: This information will be updated every year during the annual SWPPP update, to include the 3 most current years of monitoring data. If the current Permit cycle is under 3 years, include the available years of monitoring data.

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 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.

Attachment 1: EPC-CP-QP-2110 R1 Form 1, *MSGP SWPPP Template Example* (cont.)

(Page 12 of 53)

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. All reasonable steps are taken immediately to address any identified condition requiring corrective action. The condition requiring corrective action will 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 the 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 arrangements (i.e., scheduling) for a new SCMs to be installed."

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-2109, *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-0930, *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-1007, *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

Attachment 1: EPC-CP-QP-2110 R1 Form 1, *MSGP SWPPP Template Example* (cont.)

(Page 13 of 53)

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.

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 2021 MSGP and if benchmark monitoring is or is not required.

If the permit does identify sector-specific requirements for the facility as listed in Part 8, 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 control 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 2021 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.

Attachment 1: EPC-CP-QP-2110 R1 Form 1, *MSGP SWPPP Template Example* (cont.)

(Page 14 of 53)

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 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 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. 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.).

Attachment 1: EPC-CP-QP-2110 R1 Form 1, *MSGP SWPPP Template Example* (cont.)

(Page 15 of 53)

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 UTrain database. Informal briefings, such as those included in group safety meetings are not typically recorded in UTrain. In this case, sign-in sheets are used to document attendance. Under the current Management and Operation contract, Triad must manage this information as official use only (OUO), which requires special handling. All training records are managed in accordance with P204-1, *Controlled Unclassified Information.* Information on employees receiving training is available upon request.

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:

- 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-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. The 2021 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 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;

Attachment 1: EPC-CP-QP-2110 R1 Form 1, *MSGP SWPPP Template Example* (cont.)

(Page 16 of 53)

- 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, and 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 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.

If a visual assessment 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 SIDPs, 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 required corrective actions identified during the assessment are addressed in accordance with Section 6.0

Attachment 1: EPC-CP-QP-2110 R1 Form 1, *MSGP SWPPP Template Example* (cont.)

(Page 17 of 53)

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 [insert quarterly benchmark, indicator parameter (see Table 4-1 of the 2021 MSGP), and/or Effluent Limitation Guideline (for example for the Asphalt Batch Plant)] monitoring for industrial activity identified in Table 4-1 of the 2021 MSGP. 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 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 discharge point 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 discharge points. If the facility has multiple maps, reference them all.

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 (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 4.2.5 of the 2021 MSGP);

Attachment 1: EPC-CP-QP-2110 R1 Form 1, *MSGP SWPPP Template Example* (cont.)

(Page 18 of 53)

- 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
- 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-QP-2103, *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 9.6.2.2 of the 2021 MSGP.

Attachment 1: EPC-CP-QP-2110 R1 Form 1, *MSGP SWPPP Template Example* (cont.)

(Page 19 of 53)

Required Monitoring for CY XXXX

Outfalls: (insert outfall numbers)

Contact MSGP Program Lead to obtain this information formatted for insertion.

Monitoring Requirement	Industrial Sector	Assessment Unit	Analyte	Filtered/ Unfiltered	Regulatory Standard	Units	Regulatory Standard Type	Regulatory Standard Reference
Impaired Waters	-	NM-128.A_01	Adjusted Gross Alpha	UF	15	pCi/L	NM 2010 Livestock Watering	20.6.4.900 NMAC Subpart J
Annual	-	-	PFOA+ PFOS	-	0.07	ug/L	-	-
Indicator Parameters	P	COD, TSS, and pH						
Quarterly Benchmark	P	No Benchmark Monitoring Required						

NM=New Mexico
UF=Unfiltered
pCi=Picocurie
L=Liter
NMAC=New Mexico Administrative Code
PFOA=Perfluorooctanoic Acid
PFOS=Perfluorooctane Sulfonate
COD=Chemical Oxygen Demand
TSS=Total Suspended Solids

Attachment 1: EPC-CP-QP-2110 R1 Form 1, *MSGP SWPPP Template Example* (cont.)

(Page 20 of 53)

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 active Laboratory industrial sites (see list below) and their associated outfalls and monitoring stations subject to the 2021 Multi-Sector General Permit (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-9-0214 Metals Fabrication Shop
- TA-3-0038 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, 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; Level, 1, 2, or 3 additional implementation measures (AIM)] is reviewed and revised (as appropriate).

Attachment 1: EPC-CP-QP-2110 R1 Form 1, *MSGP SWPPP Template Example* (cont.)

(Page 21 of 53)

- 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;
- 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;
- 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 4.2); 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, called "additional implementation measures" or "AIM." 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

Attachment 1: EPC-CP-QP-2110 R1 Form 1, *MSGP SWPPP Template Example* (cont.)

(Page 22 of 53)

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.

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.

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 SCMs 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 Corrective Action Reporting (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 2

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.

Attachment 1: EPC-CP-QP-2110 R1 Form 1, *MSGP SWPPP Template Example* (cont.)

(Page 23 of 53)

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 that 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 SCMs 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

Attachment 1: EPC-CP-QP-2110 R1 Form 1, *MSGP SWPPP Template Example* (cont.)

(Page 24 of 53)

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 Stormwater Permitting/Compliance Team.

6.4 Corrective Action 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 SCMs (also known as Best Management Practices or 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
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
OUO	Official Use Only

Attachment 1: EPC-CP-QP-2110 R1 Form 1, *MSGP SWPPP Template Example* (cont.)

(Page 25 of 53)

PAH	Polyaromatic Hydrocarbons
PPT	Pollution Prevention Team
SCM	Stormwater Control Measures
SIDP	Substantially Identical Discharge Point
SWPPP	Stormwater Pollution Prevention Plan
URL	Uniform Resource Locator

Attachment 1: EPC-CP-QP-2110 R1 Form 1, *MSGP SWPPP Template Example* (cont.)

(Page 26 of 53)

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 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.

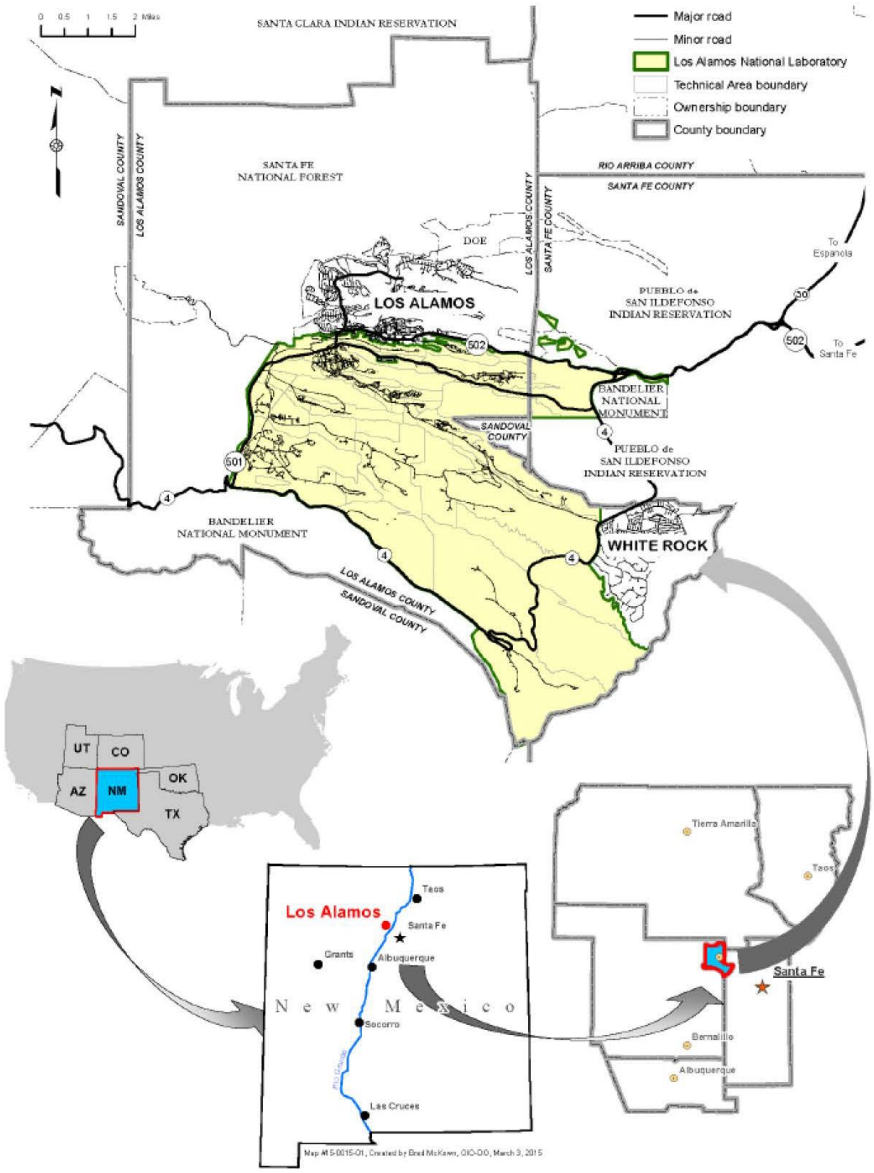
(Signatory must meet definition in Section B.11.A, e.g., FOD, Ops Mgr., EPC Group or Team Leader)

Signature_____ Date_____
(Insert Printed Name)
(Insert Title)

Attachment 1: EPC-CP-QP-2110 R1 Form 1, *MSGP SWPPP Template Example* (cont.)

(Page 27 of 53)

FIGURE A: GENERAL LOCATION MAP



Attachment 1: EPC-CP-QP-2110 R1 Form 1, *MSGP SWPPP Template Example* (cont.)

(Page 28 of 53)

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.

Attachment 1: EPC-CP-QP-2110 R1 Form 1, *MSGP SWPPP Template Example* (cont.)

(Page 29 of 53)

Insert Facility Name
MSGP Stormwater Pollution Prevention Plan
Document Reference Number
Revision X, Date

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

Insert the appropriate attachment and supporting documentation. **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.

Attachment 1: EPC-CP-QP-2110 R1 Form 1, *MSGP SWPPP Template Example* (cont.)

(Page 30 of 53)

Insert Facility Name
MSGP Stormwater Pollution Prevention Plan
Document Reference Number
Revision X, Date

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
		(e.g., 2021 MSGP was published on March 1, 2021, requiring a SWPPP update.)	(e.g., Plan revised to reflect new permit requirements.)

Attachment 1: EPC-CP-QP-2110 R1 Form 1, *MSGP SWPPP Template Example* (cont.)

(Page 31 of 53)

Insert Facility Name
MSGP Stormwater Pollution Prevention Plan
Document Reference Number
Revision X, Date

ATTACHMENT 3: CERTIFICATION OF NO UNAUTHORIZED STORMWATER DISCHARGES

Insert the appropriate attachment.

Attachment 1: EPC-CP-QP-2110 R1 Form 1, *MSGP SWPPP Template Example* (cont.)

(Page 32 of 53)

ATTACHMENT 4: DULY AUTHORIZED SIGNATORY MEMORANDUM

Insert the appropriate attachment.

Attachment 1: EPC-CP-QP-2110 R1 Form 1, *MSGP SWPPP Template Example* (cont.)

(Page 33 of 53)

ATTACHMENT 5: DISCHARGE MONITORING REPORTS

Insert the discharge monitoring reports for the current permit term.

Attachment 1: EPC-CP-QP-2110 R1 Form 1, *MSGP SWPPP Template Example* (cont.)

(Page 34 of 53)

ATTACHMENT 6: ANNUAL REPORTS

Insert the annual reports for the current permit term. The MSGP Program Lead provides these.

Attachment 1: EPC-CP-QP-2110 R1 Form 1, *MSGP SWPPP Template Example* (cont.)

(Page 35 of 53)

Insert Facility Name
MSGP Stormwater Pollution Prevention Plan
Document Reference Number
Revision X, Date

ATTACHMENT 7: ROUTINE FACILITY INSPECTIONS

Insert completed Routine Facility Inspection forms for the current permit term.

Attachment 1: EPC-CP-QP-2110 R1 Form 1, *MSGP SWPPP Template Example* (cont.)

(Page 36 of 53)

Insert Facility Name
MSGP Stormwater Pollution Prevention Plan
Document Reference Number
Revision X, Date

ATTACHMENT 8: QUARTERLY VISUAL ASSESSMENTS

Insert completed Quarterly Visual Assessment forms for the current permit term. EPC-CP provides these by e-mail as they are certified.

Attachment 1: EPC-CP-QP-2110 R1 Form 1, *MSGP SWPPP Template Example* (cont.)

(Page 37 of 53)

Insert Facility Name
MSGP Stormwater Pollution Prevention Plan
Document Reference Number
Revision X, Date

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.

Attachment 1: EPC-CP-QP-2110 R1 Form 1, *MSGP SWPPP Template Example* (cont.)

(Page 38 of 53)

Insert Facility Name
MSGP Stormwater Pollution Prevention Plan
Document Reference Number
Revision X, Date

ATTACHMENT 10: SCHEDULED MAINTENANCE LOG

SCHEDULED MAINTENANCE LOG

Date	Control Measure or Equipment Description (include location where appropriate)	Action Taken/Comments	Action Taken By (printed name & Z no.)

Page 1 of X

Attachment 1: EPC-CP-QP-2110 R1 Form 1, *MSGP SWPPP Template Example* (cont.)

(Page 39 of 53)

Insert Facility Name
MSGP Stormwater Pollution Prevention Plan
Document Reference Number
Revision X, Date

ATTACHMENT 11: TRAINING DOCUMENTATION

Information on employees receiving training is available upon request. Insert briefing or presentation.

Attachment 1: EPC-CP-QP-2110 R1 Form 1, *MSGP SWPPP Template Example* (cont.)

(Page 40 of 53)

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 2021 MSGP is kept on file with the SWPPP in hard copy.

The active URL for the permit is https://www.epa.gov/npdes/final-2021-msgp-documents

Attachment 1: EPC-CP-QP-2110 R1 Form 1, *MSGP SWPPP Template Example* (cont.)

(Page 41 of 53)

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.

Attachment 1: EPC-CP-QP-2110 R1 Form 1, *MSGP SWPPP Template Example* (cont.)

(Page 42 of 53)

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.

Attachment 1: EPC-CP-QP-2110 R1 Form 1, *MSGP SWPPP Template Example* (cont.)

(Page 43 of 53)

Insert Facility Name
MSGP Stormwater Pollution Prevention Plan
Document Reference Number
Revision X, Date

ATTACHMENT 15: EPC-CP-PIP-2101, *NPDES MULTI-SECTOR GENERAL PERMIT*

Insert the most current revision of the plan into this SWPPP.

Attachment 1: EPC-CP-QP-2110 R1 Form 1, *MSGP SWPPP Template Example* (cont.)

(Page 44 of 53)

Insert Facility Name
MSGP Stormwater Pollution Prevention Plan
Document Reference Number
Revision X, Date

ATTACHMENT 16: EPC-CP-QP-2108, *MSGP ROUTINE FACILITY INSPECTIONS*

Insert the most current revision of the appropriate procedure or parts of the procedure that pertain to this SWPPP.

Attachment 1: EPC-CP-QP-2110 R1 Form 1, *MSGP SWPPP Template Example* (cont.)

(Page 45 of 53)

Insert Facility Name
MSGP Stormwater Pollution Prevention Plan
Document Reference Number
Revision X, Date

ATTACHMENT 17: EPC-CP-QP-2109, *MSGP CORRECTIVE ACTIONS*

Insert the most current revision of the appropriate procedure or parts of the procedure that pertain to this SWPPP.

Attachment 1: EPC-CP-QP-2110 R1 Form 1, *MSGP SWPPP Template Example* (cont.)

(Page 46 of 53)

Insert Facility Name
MSGP Stormwater Pollution Prevention Plan
Document Reference Number
Revision X, Date

ATTACHMENT 18: EPC-CP-QP-2105, *MSGP STORMWATER VISUAL ASSESSMENTS*

Insert the most current revision of the appropriate procedure or parts of the procedure that pertain to this SWPPP.

Attachment 1: EPC-CP-QP-2110 R1 Form 1, *MSGP SWPPP Template Example* (cont.)

(Page 47 of 53)

Insert Facility Name
MSGP Stormwater Pollution Prevention Plan
Document Reference Number
Revision X, Date

ATTACHMENT 19: EPC-CP-QP-2103, *INSPECTING STORMWATER RUNOFF SAMPLERS AND RETRIEVING SAMPLES FOR THE MSGP*

Insert the most current revision of the appropriate procedure or parts of the procedure that pertain to this SWPPP.

Attachment 1: EPC-CP-QP-2110 R1 Form 1, *MSGP SWPPP Template Example* (cont.)

(Page 48 of 53)

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 most current revision of the appropriate procedure or parts of the procedure that pertain to this SWPPP.

Attachment 1: EPC-CP-QP-2110 R1 Form 1, *MSGP SWPPP Template Example* (cont.)

(Page 49 of 53)

Insert Facility Name
MSGP Stormwater Pollution Prevention Plan
Document Reference Number
Revision X, Date

ATTACHMENT 21: **EPC-DO-QP-0930, *ENVIRONMENTAL REPORTING REQUIREMENTS FOR RELEASES OR EVENTS***

Insert the most current revision of the appropriate procedure or parts of the procedure that pertain to this SWPPP.

Attachment 1: EPC-CP-QP-2110 R1 Form 1, *MSGP SWPPP Template Example* (cont.)

(Page 50 of 53)

ATTACHMENT 22: EPC-CP-QP-1007, *SPILL INVESTIGATIONS*

Insert the most current revision of the appropriate procedure or parts of the procedure that pertain to this SWPPP.

Attachment 1: EPC-CP-QP-2110 R1 Form 1, *MSGP SWPPP Template Example* (cont.)

(Page 51 of 53)

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 most current revision of the appropriate procedure or parts of the procedure that pertain to this SWPPP.

Attachment 1: EPC-CP-QP-2110 R1 Form 1, *MSGP SWPPP Template Example* (cont.)

(Page 52 of 53)

Insert Facility Name
MSGP Stormwater Pollution Prevention Plan
Document Reference Number
Revision X, Date

ATTACHMENT 24: SPILL LOG

Insert a table containing the date, spill location, spilled substance, quantity, corrective action, and outfall affected if a table of spills and leaks is placed here. Delete section if not needed.

Attachment 1: EPC-CP-QP-2110 R1 Form 1, *MSGP SWPPP Template Example* (cont.)

(Page 53 of 53)

Insert Facility Name
MSGP Stormwater Pollution Prevention Plan
Document Reference Number
Revision X, Date

ATTACHMENT 25: LOCAL PROCEDURE

Insert the most current revision of the appropriate procedure or parts of the procedure that pertain to this SWPPP. Change LOCAL PROCEDURE to the actual title of the procedure inserted here. Delete section if not needed. If more than one procedure is added, add additional attachment headers and name them the same way consecutively.

Attachment 2: MSGP SWPPP Review Guidance Checklist Example

(Page 1 of 11)

MSGP SWPPP Review Guidance Checklist

REQUIREMENT	COMMENT	RESOLUTION
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?		
• 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:		
• Boundaries of the property and size of the property in acres		
• Location and extent of significant structures and impervious surfaces		
• Direction(s) of stormwater flow and site drainage (using arrows)		
• Locations of **all** stormwater control measures		
• 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)		
• Locations of all stormwater conveyances including ditches, pipes, and swales		
• Locations of potential pollutant sources associated with each industrial activity (see Part 6.2.3.2) that could be exposed to rainfall or snowmelt and could be discharged from the site		
• Locations where significant spills or leaks have occurred (see Part 6.2.3.3)		
• Location(s) of all stormwater monitoring points		
• 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 3.2.4.5, 6.2.5.3, and 4.1.1)		
• If applicable, location of the MS4 and where your stormwater discharges to it. ***NOTE:*** Although LANL does not currently have an MS4, EPA has published a draft permit		
• Areas of designated critical habitat for endangered or threatened species		
• Locations of the following activities where such activities are exposed to precipitation:		

Attachment 2: *MSGP SWPPP Review Guidance Checklist* Example (cont.)

(Page 2 of 11)

MSGP SWPPP Review Guidance Checklist

REQUIREMENT	COMMENT	RESOLUTION
- 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? ***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.		
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? ***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.		
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 6.2.3.4) been done and does it include the following information?		
• Date of the evaluation		
• A description of the evaluation criteria used		

Attachment 2: *MSGP SWPPP Review Guidance Checklist* Example (cont.)

(Page 3 of 11)

MSGP SWPPP Review Guidance Checklist

REQUIREMENT	COMMENT	RESOLUTION
• A list of the outfall or onsite drainages points that were directly observed during the evaluation		
• 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?		
• Preventing stormwater from coming into contact with polluting materials is generally more effective, and less costly, than trying to remove pollutants from stormwater		
• Using control measures in combination which may be more effective than using control measures in isolation for minimizing pollutants in stormwater discharge		
• 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		
• 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		
• Attenuating flow using open vegetated swales and natural depressions can reduce in-stream impacts of erosive flows		
• Conserving and/or restoring riparian buffers will help protect streams from stormwater runoff and improve water quality		
• Using treatment interceptors (e.g., swirl separators and sand filters) may be appropriate in some instances to minimize the discharge of pollutants.		
Implementing structural improvements, enhanced/resilient pollution prevention measures, and other mitigation measures to minimize impacts from stormwater discharges from major storm events and flood events (see Part 2.1.1.8).		
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?		

Attachment 2: *MSGP SWPPP Review Guidance Checklist* Example (cont.)

(Page 4 of 11)

MSGP SWPPP Review Guidance Checklist

REQUIREMENT	COMMENT	RESOLUTION
• **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.		
- Use grading, berming or curbing to prevent runoff of contaminated flows and divert run-on away from these areas;		
- 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 washdown 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 1.2.2 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" these 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.		

Attachment 2: *MSGP SWPPP Review Guidance Checklist* Example (cont.)

(Page 5 of 11)

MSGP SWPPP Review Guidance Checklist

REQUIREMENT	COMMENT	RESOLUTION
- 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 reasonable steps (see Part 5.1.3.1 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 5.1 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 5.1) 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?		
• **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.		
- 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		

Attachment 2: *MSGP SWPPP Review Guidance Checklist* Example (cont.)

(Page 6 of 11)

MSGP SWPPP Review Guidance Checklist

REQUIREMENT	COMMENT	RESOLUTION
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**		
- 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?		
- 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 1.2.2 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.5)?		
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 9.6.2.2 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?		

Attachment 2: *MSGP SWPPP Review Guidance Checklist* Example (cont.)

(Page 7 of 11)

MSGP SWPPP Review Guidance Checklist

REQUIREMENT	COMMENT	RESOLUTION
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? Information to be managed in accordance with P204-1, *Controlled Unclassified Information* and only available upon request.		
• 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?		
• Content of the training		
• Frequency/schedule of training		
Are records of completed training kept in accordance with LANL OUO guidelines?		
Schedules and Procedures - Inspections and Assessments		
Is the procedure identified for conducting routine facility inspections?		
Is the procedure identified for conducting visual assessments?		

Attachment 2: *MSGP SWPPP Review Guidance Checklist* Example (cont.)

(Page 8 of 11)

MSGP SWPPP Review Guidance Checklist

REQUIREMENT	COMMENT	RESOLUTION
For each type of inspection performed (i.e., routine inspection and visual assessments) does the SWPPP identify the 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 3.2.4)?		
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 3.1.5, 3.2.4.4, 4.2.2.5 and 4.2.5.2. 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?		
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 4.2.1.2)?		
Are numeric control values (benchmark, effluent limitations guidelines, and water quality standards) applicable to discharges from each outfall identified?		
Does the SWPPP list procedures for gathering storm event data (see Part 4.1.3)?		
Schedules and Procedures - Substantially Identical Outfalls (SIPDs)		
Does the SWPPP contain the following relative to Substantial Identical Discharge Points (SIDPs)?		
• Location of each of the SIDPs		
• 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 materials 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 SIDPs		
Do SIDPs identified on the SWPPP map match those identified in MDMRs?		
Is there language indicating quarterly visual assessments of SIDPs will be performed on a rotating basis throughout the permit term?		

Attachment 2: *MSGP SWPPP Review Guidance Checklist* Example (cont.)

(Page 9 of 11)

MSGP SWPPP Review Guidance Checklist

REQUIREMENT	COMMENT	RESOLUTION
Is there language indicating quarterly visual assessment of the discharge at one SIDP will also apply to the other SIDPs?		
Corrective Action Documentation - If an event triggering corrective action is associated with an SIDP, 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 3.1.6) and Quarterly Visual Assessment Reports (see Part 3.2.3).		
• 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 3.2.4 and 4.1.5)		
• Corrective action documentation (see Part 5.1)		
• Documentation of any benchmark threshold exceedances, the associated AIM Level and response:		
- Is rationale included that SCM changes are unnecessary?;		
- Documentation required to meet any AIM Exception (see Part 5.2.6);		
- 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 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 4.2.5.1)		

Attachment 2: *MSGP SWPPP Review Guidance Checklist* Example (cont.)

(Page 10 of 11)

MSGP SWPPP Review Guidance Checklist

REQUIREMENT	COMMENT	RESOLUTION
• 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).		
• 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 1.1.5).		
• 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 (see Part 3.1.5), quarterly visual assessments (see Part 3.2.4.4), benchmark monitoring (see Part 4.2.2.5), and/or impaired waters monitoring (see Part 4.2.5.2).		
Is the SWPPP signed and dated by a duly authorized representative (per Appendix B.11)?		
Is the Annual Report signed by a duly authorized representative (per Appendix 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 6.3)?		
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?		
• 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.		
• A discharge violates a numeric effluent limit listed in Table 2-1 and in the sector specific requirements.		
• 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.		
• 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.		
• Whenever a visual assessment shows evidence of stormwater pollution (e.g., color, odor, floating solids, settled solids, suspended solids, foam, etc.).		
• 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.		

Attachment 2: *MSGP SWPPP Review Guidance Checklist* Example (cont.)

(Page 11 of 11)

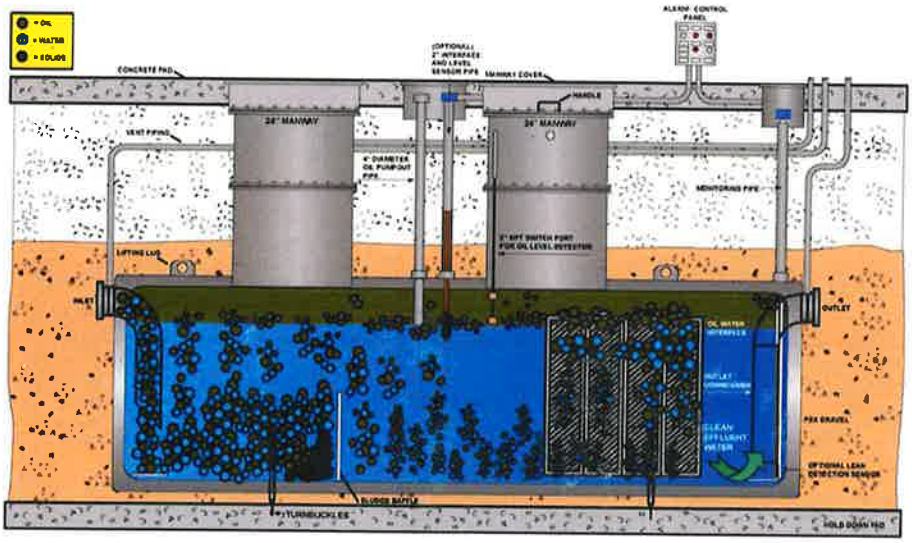
MSGP SWPPP Review Guidance Checklist

REQUIREMENT	COMMENT	RESOLUTION
• The average of four quarterly sampling results exceeds an applicable benchmark (see Part 4.2). 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?		
• Onsite industrial activities exposed to stormwater, including potential spill and leak areas (see Parts 6.2.3.1, 6.2.3.3 and 6.2.3.5);		
• 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 1.2.2.1 (see Part 6.2.3.2)		
• 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.		
• The schedule for good housekeeping and maintenance and schedule for all inspections required in Part 3.		
Are modifications to the SWPPP information, required in the four bullets above, updated no later than 45 days after conducting the final routine facility inspection for the year and uploaded onto a URL that is accessible by the public (i.e., eprr.lanl.gov).		
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?		

ATTACHMENT 24: TA60-0001 HEAVY EQUIPMENT SHOP OIL/WATER SEPARATOR (TA-60-0313) OPERATIONS AND MAINTENANE MANUAL

Los Alamos
NATIONAL LABORATORY

TA60-01 Heavy Equipment Shop
Oil/Water Separator (TA60-313)
Operations and Maintenance Manual



ECOLOGIX HQB BELOW GROUND OIL/WATER SEPARATOR

333IFCS FOD

October 30, 2009

Approvals

Name	Organization	Date	Signature
Project Engineer:			
Engineering Manager:			
Operations Manager:			

Classification

Review & Classification			
(Reviewed By)	(Z#)	(Review Date)	(Classification)

Revisions

Table of Contents

SECTION 1 –Operations & Maintenance Information

SECTION 2 – Manufacturers Procedures, Specifications, & Drawings

SECTION 3 – Project Specifications

SECTION 4 – As Constructed Drawings

SECTION 1

LANL GENERAL INFORMATION

AND

OPERATIONS AND MAINTENANCE PROCEDURES

SECTION 1.0 OIL/WATER SEPARATOR SYSTEM – GENERAL

1.0 PURPOSE:

The Oil/Water Separator (OWS) is designed to collect and treat wash water and storm water contaminated with heavy oil (asphalt & grease), light oil (motor oil), or other contaminants such as VOCs or sand and gravel. The OWS separates these contaminants from the influent water by a gravity flotation/separation system. The OWS discharges clean effluent to a manhole (TA60-48) on the LANL Sanitary Wastewater collection system.

2.0 SUPPORTED/SUPPORTING SYSTEMS

2.1. Supported Systems – The Oil/Water Separator (OWS) collects wash water and run-on rain water from the heavy equipment wash pad located at TA60-01, The Heavy Equipment Repair shop. Other than for the installed instrumentation systems, the OWS is a totally passive device which works solely through gravity flow of the influent liquid. No pumps or valves are required to receive, treat, or discharge the influent or effluent.

2.2. Supporting Systems -- 110v AC electrical power is supplied to the OWS instrumentation panels located in the Heavy Equipment Shop. Only 24v AC power is routed to the instrumentation probes in the OWS itself. The OWS discharges clean waste water to the LANL Sanitary Wastewater Collection System. This waste water is treated at the LANL Sanitary Wastewater Treatment Facility.

3.0 MAJOR SYSTEMS AND COMPONENTS

3.1. Envirologix HQB Oil Water Separator

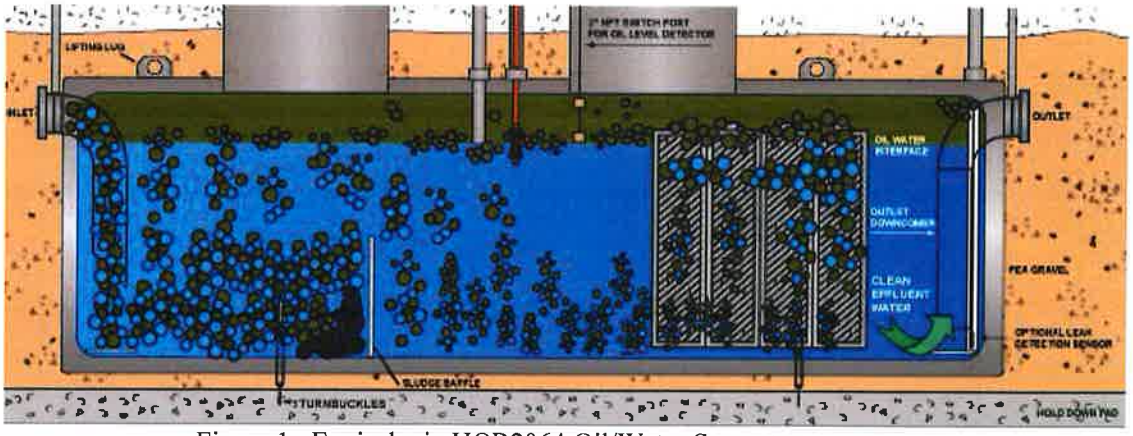


Figure 1. Envirologix HQB2064 Oil/Water Separator

The Envirologix Oil/Water Separator (OWS) is an self contained underground tank type system which is designed to separate both heavy oils (asphalt & grease) and light oils (motor oil) from wash water and stormwater runoff. The OWS will also separate sand and gravel from the influent. The total volume of the tank is 2000 gallons (7.67 M^3). Maximum reject oil storage capacity recommended by the Manufacturer is 40% of the total capacity or 800 gallons (3.0 M^3).

The OWS functions very much like a standard sanitary septic tank system with which many of us are familiar. The easy way to understand operation of the OWS is to think of the entire system as an inverted siphon or "P trap." (See Figure 1) Contaminated water enters the inlet end of the tank through the inlet half of the inverted siphon or "downcomer". Heavy materials in the influent are prevented from flowing further though the tank by the sludge baffle depicted in the drawing.

The influent water and lighter contaminants flow over the baffle and the light contaminants float to the surface of the fluid and coalesce as the contents flow through the tank. Plastic oil coalescing plates are provide to facilitate this process. As new influent enters the tank, clean effluent is forced out of the tank through the effluent downcomer.

It is interesting to note that the OWS tank is always full. The tank is "pre-charged" with clean water upon commissioning or after pumping. The tank fills to the level of the outlet invert (bottom of pipe) and maintains this level though out tje operating "cycle". The only way a higher level of fluid can be experienced in the tank is in the event of a blockage of the effluent pipe.

As waste oil flows into the tank and is collected, the interface surface between the oil and the water moves down, however the top surface of the two fluids never varies. The oil level probe described below is therefore designed to measure the height of the interface between the fluids.

The tank must be pumped on a regular basis to remove accumulated sludge and light oil from the tank. This service is typically provided by a commercial waste oil collection service.

Detailed manufacturers drawings and literature are provided in Section 2. Project specifications are provided inSection 3, and installation drawings are provided in Section 4.

3.2. Sitrans/ Automated Logic Level Sensor system

A flow sensor is installed on the outlet of the tank to measure the amount of water being discharged to the Sanitary Wastewater System. The flow sensor transmits an ultrasonic signal that bounces off the surface of water and returns to the transducer located with in the semspr. The sensor in trun transmits a 4-20 milliamp signal to the Automatic Logic signal processer. The level of the signal is proportional to the flow in the outlet pipe.

The Automated Logic signal processor is calibrated to read flow in gallons per minute. (gpm) The instrumentation package allows real time reading of the flow meter signal, as well as the capability to totalize flow over a several different time periods. This information can be accessed from any personal computer with a web browser operating on the LANL Yellow net.

Figure 3—Sitrans Ultrasonic Level Sensor

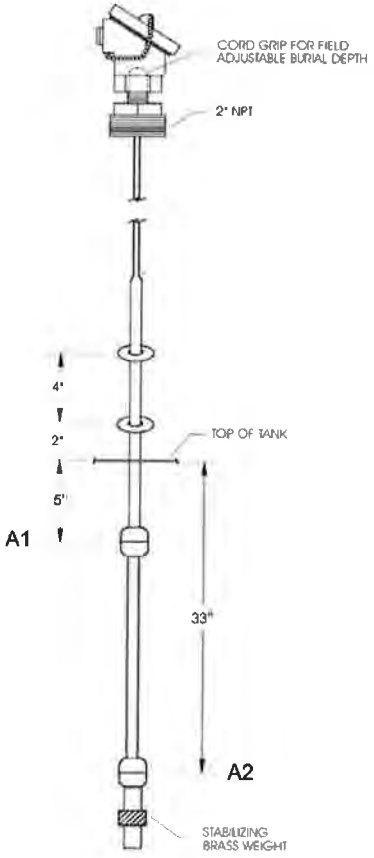
3.3. Aggressive Systems Level Probe and Alarm System.

The OWS is provided with a level sensor and remote alarm system to detect two different fluid levels in the tank. The level sensor is a brass rod inserted vertically in the tank and is equipped with two plastic floats located at pre-specified locations.

The A1 float(Alarm 1-System Alarm) has a specific gravity of 0.60 and will float on top of the oil layer in the tank. The A2 (Alarm 2-High Oil) float has a specific gravity of 0.93. Since it is heavier than oil but lighter than water, it will float on the surface layer between the oil and the water in the tank.

Float A1, the upper float, is set to activate at a level 5 inches below the top of the tank. If the liquid level reaches this limit, the float will activate Alarm 1 at the remote panel. This level is 6" above the outlet invert of the tank and indicates a "blocked flow" condition in which normal effluent flow from the tank is blocked

Float A2 is set to activate at a level 33 inches below the top of the tank. If the oil reaches this level the float will activate Alarm 2 at the remote panel. This alarm indicates the OWS has reached its recommend maximum storage capacity for oil. Oil quantity in the tank when this alarm activates is approximately 814 gallons or 40% of the total tank capacity.



F

Figure 3—Level Probe

When either float senses an alarm condition the appropriate warning light will be illuminated on the remote panel located in the southeast corner of the heavy equipment shop. Either alarm will also cause an audible alarm (horn) to sound. The audible alarm may be muted by pushing the silence button. Pushing the silence button will not reset the alarm condition or extinguish the light. The warning lights may only be extinguished by correcting the alarm condition. See 4.2 below for appropriate alarm response actions.

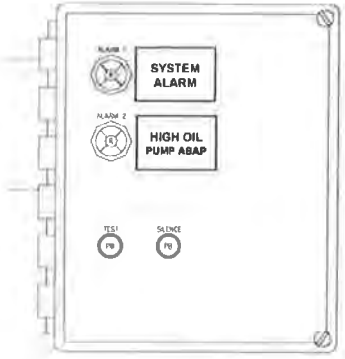


Figure 4—Alarm Panel

5. Using the waste oil vacuum truck suction line, suction all heavy oil and sludge from the behind the sludge baffle at the bottom of the tank.
6. Using a 2" fire hose and the nearby fire hydrant east of TA60-01, refill the OWS with water until the flow is observed in the outlet line at the firest cleanout
7. Replace the light oil suction line cover plate
8. Replace the inner lid and cover plate on west access manway

5.4. Removal and Cleaning of the HD Q-PAC Oil Coalescing Plates

1. Obtain approval for confined space entry. Comply with any entry requirements
2. .Remove the cover plate and inner lid on the east access manway
3. a To clean the plates in place, connect a conventional 5/8 or 3/4" water hose to the hosebid loacated at the _____wall of TA60-01. Using a garden hose high pressure nozzle wash the the spaces between the plate rack from the top. Suction all debris from the bottom of the tank after cleaning
   b The plates may also be cleaned outside of the OWS by removing the plates through the east manway using _____hook tool. The plates can be placed on the wash pad and washed with a 5/8" or 3/4" hose with a conventional garden hose high pressure nozzle. Once all sludge is removed from the plates, they can be returned to the OWS. Suction all debris from the bottom of the trench inlet after cleaning
4. Using a 2" fire hose and the nearby fire hydrant east of TA60-01, refill the OWS with water until the flow is observed in the outlet line at the first cleanout
5. Replace the cover plate on the east access manway.

5.5. Maintenance and Calibration of instrumentation.

1. The Aggressive systems alarm panel should be tested once per month by actuating the Test button and observing proper illumination of both alarm lights and actuation of the warning horn.
2. Alarm System floats. The Aggressive Systems level probe should be removed on a biennial basis, and the floats should be actuated manually in order to test continuity of the alarm system wiring.
3. The Sitrans/Automated Logic flow metering system should be calibrated on a biennial basis. This calibration can be conducted by Process and Automation technicians or the instrumentation shop.

5.5.1.1. Calibration procedure:

6.0 RESPONSIBILITES

Maintenance of the OWS will be the responsibility of ____ Heavy Equipment shop personnel. It is recommended that the shop manager appoint a designated technician to be responsible for monitoring of the tank and scheduling of maintenance and servicing.

7.0 GENERAL PRECAUTIONS, LIMITATIONS AND SAFETY HAZARDS

7.1. Confined space—The OWS is designated as a Permit Only Confined space. Prior permission from ESH Personnel is required to enter either of the tank man ways or the tank itself to service the oil coalescing plates.

7.2. Spills when pumping—Appropriate precautions against surface spills are to be taken when pumping waste oil or sludge. These precautions are described in the pumping procedures outline above.

7.3. Overflow—Since inflow into the tank is gravity flow only, there is no way for the tank itself to overflow from the manholes or other connections. The system can only "overflow" in the event of a blocked outlet line. If the installed high level alarm fails to detect a blocked flow condition, the first indication of an overflow would be standing water in the trench drain. See 5.2 above for correction of this condition.

8.0 REFERENCES

8.1. xx

8.2. yy

8.3. zz

SECTION 2

MANUFACTURERS PROCEDURES, SPECIFICATIONS AND DRAWINGS

ECOLOGIX GENERAL DESCIPTION

ECOLOGIX ENVIRONMENTAL SYSTEMS

Air & Water Treatment Solutions
(888) 326-2020 / (678) 514-2100

Online Store
- bag filters
- activated carbon
- specialty chemicals
- air filtration
- ozone generators & more !

Distributors and Reps Wanted! (click here)

Home | Online Store | Forms | Contact Us | About Us | Site Map | Search Site | Go

- Applications
  - Automotive
  - Biodiesel
  - Car Wash Industry
  - Dairy Industry
  - Food Processing Industry
  - Iron Removal
  - Latex Removal
  - Metals Treatment
  - Mining Industry
  - Odor Control
  - Petrochemical Industry
  - Poultry Industry
- Products
  - Activated Carbon
  - Air Treatment Systems
  - Bag Filtration
  - Biological Treatment
  - Chemicals (Specialty)
  - Clarifiers
  - Dissolved Air Flotation
  - Dewatering
  - Dust Collection
  - Evaporators
  - Filter Screens
  - Membrane Filtration
  - Microbial Bacteria
  - Oil/Water Separators
    - Above Ground Separators
    - Below Ground Separators
    - Bilge Oil Removal System
    - Liquid Phase Vessels
  - Ozone
  - Polymer Blenders
  - Pressure Filtration
  - Separators/Strainers
  - Tanks
  - Wet Scrubbers

Oil Water Separators > Below Ground Oil Water Separators

Oil water separators are systems used as an efficient method to separate oils and some solids from a variety of wastewater discharges. They are typically installed in industrial and maintenance areas and receive oily wastewater. Our line of above ground oil water separators will assist in the removal of large quantities of free oil from your wastewater before any further treatment step you may have in your process. We have below ground oil water separators with flow rates ranging from 20 to 2000 gallons per minute and capacities up to over 20,000 gallons.

Related product links

AFD-55 | AFP-55 Series | BORS | Above Ground Separator (ECOS) | HD Q-PAC | Inclined Plate Clarifiers | Hopper/Separator | OilFree Polymeric Filtering

Features

- Low maintenance cost
- Easily cleaned through the removable vapor tight cover(s)
- No moving parts or consumables
- No power consumption
- No chemicals, absorbent or filter cartridges to remove, replace or dispose of
- Service & maintenance of coalescing media and removal of sludge from outside
- No confined spaces
- Shallow burial depth

HQB Series Diagram.PDF | HQB Ballast & Pad Specs | HQB Series - How They Work

Technical Features

- HQB's Oil/Water Separators are versatile and can be used in many different applications.
- Plasteel Elutron Jacketed Oil Water Separators are in a unique double wall jacketed construction with 360 degree interstitial monitoring.
- Primary tank of welded steel construction in accordance with UL 58.
- Secondary containment is constructed of FRP laminate that does not become brittle or soft below or above ground and has been successfully tested to UL 1746 requirements for corrosion protection.
- Cathodic protection and/or dielectric isolation not required.
- The Unipack cross fluted plates are manufactured of PVC, CPVC, PP, SS, or FRP.
- Sizes available up to GPM.

Dimensional Parameters for Ecologix Below Ground Oil Water Separators

MODEL	DIA	LENGTH	INLET	OUTLET	FLOW RATE	TANK CAPACITY (GAL.)	OIL SPILL CAPACITY (GAL
HQB342	3'-9"	4'-5"	4"	4"	20	400	320
HQB548	4'-0"	6'-3"	4"	4"	50	600	480
HQB1048	4'-0"	10'-9"	6"	6"	100	1000	800
HQB2064	5'-4"	12'-0"	6"	6"	200	2000	1600
HQB3064	5'-4"	18'-0"	8"	8"	300	3000	2400
HQB4072	5'-4"	24'-0"	8"	8"	400	4000	3200
HQB5072	6'-0"	23'-10"	8"	8"	500	5000	4000
HQB6072	6'-0"	28'-8"	10"	10"	600	6000	4800
HQB7084	7'-0"	24'-4"	10"	10"	700	7000	5600
HQB8084	7'-0"	28'-0"	10"	10"	800	8000	6400
HQB9096	8'-0"	24'-0"	12"	12"	900	9000	7200
HQB10096	8'-0"	26'-8"	12"	12"	1000	10,000	8000
HQB12096	8'-0"	32'-0"	12"	12"	1200	12,000	9600
HQB15121	10'-0"	25'-6"	14"	14"	1500	15,000	12,000
HQB21120	10'-0"	34'-0"	18"	18"	2000	20,000	16,000

Operation

The separator is a special purpose prefabricated parallel corrugated plate gravity displacement type oil/water separator designed to remove free and dispersed non-emulsified oil and settlable solids, in accordance with API 421. The separator capacities, dimensions, and construction will be in strict accordance with UL 58, and UL 1746. Separator shall be comprised of a tank containing:

Inlet Compartment

The inlet chamber will be comprised of a non-clog diffuser pipe to distribute the flow across the width of the separator chamber. The inlet compartment shall be of sufficient volume to effectively reduce influent suspended solids, dissipate energy and begin separation. A sludge baffle will be provided to prevent settlable solids and sediment from entering the separation chamber.

4.0 OPERATIONAL BASIS AND PROCEDURES

4.1. Normal Operations

Since the OWS is a passive gravity flow system no special "Operating" Procedures are necessary. The OWS is ready to receive wash water from the heavy equipment wash rack under all normal conditions. Care should be taken however to prevent excessive amounts of sand, grit, or gravel from entering the inlet catch basin.

4.2. Inspections

At time of installation, it is unknown how quickly the OWS will collect oil and sludge. Estimates to reach the 800 gallon light oil limit vary from 1 to 5 years. Accordingly, during the first one year of service, the access ports to the OWS should be removed and the interior should be visually inspected every six months. Thereafter, the OWS should be inspected at least annually. A wooden dipstick may be used to determine the approximate amount of sludge behind the sludge baffles and the approximate amount of light oil in the top of the tank. Alternately, a marked line tied to a small plastic bottle ¾ full of water may be used to measure the level of the water/oil interface in the tank. Pumping of the tank on an annual basis will most likely be required. A longer pumping interval may be established based upon operational experience.

4.3. Response to alarms

4.3.1 Alarm 1-- "System Alarm". This alarm indicates a blocked flow condition in the effluent or outlet pipe. Discontinue use of the wash rack until the blocked flow condition is cleared. See 5.2 below for outlet line cleanout procedures

4.3.2 Alarm 2--"High Oil Alarm". This alarm indicates that the OWS has reached its recommended oil storage limit of 800 gallons. Have the oil and sludge pumped from the OWS within two weeks of the activation of the "High Oil Alarm". The wash rack may continue to be used in the event of this alarm since the OWS can store up to an additional 800 gallons of oil without the risk of an oil release or spill.

5.0 MAINTAINANCE PROCEDURES

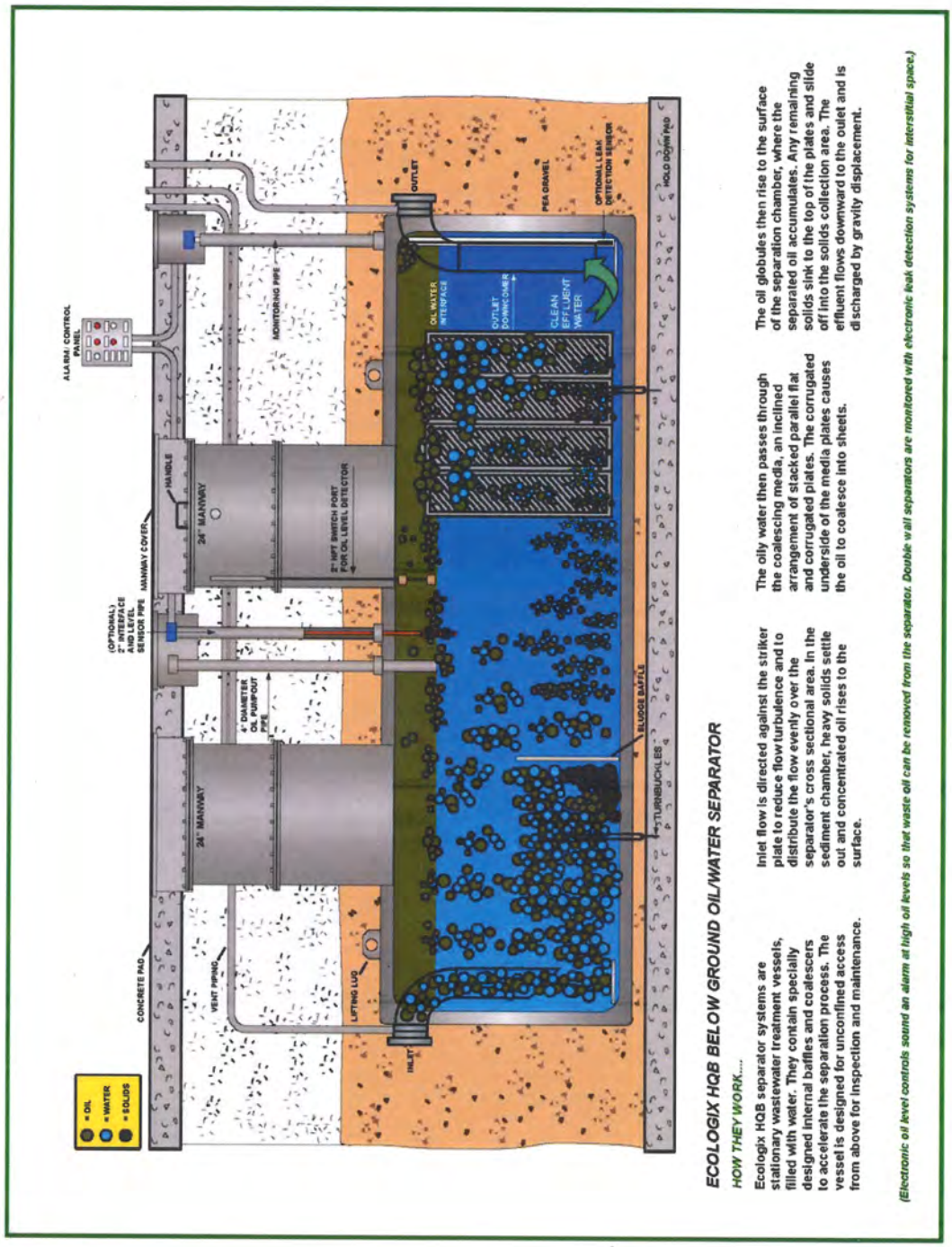
5.1. Collection system: The trench drain inlet should be cleaned of sludge and sediment on a twice yearly basis to prevent excess sediment from entering the OWS. If standing water is observed in the trench drain, the inlet pipe to the OWS should be checked for blockage and cleaned if necessary. The 6" ductile iron inlet line can be cleaned with standard sanitary sewer jetting or rodding equipment. Contact the LANL Utilities section to schedule cleaning of the inlet line.

5.2. Effluent (Outlet) line. If the 6" ductile iron outlet line becomes blocked, the line can be cleaned with standard sanitary sewer jetting or rodding equipment from either of the two cleanout access points provided. Contact the LANL Utilities section to schedule cleaning of the outlet line

5.3. Removal (pumping) of collected light oil and sludge and sediment.

Pumping Procedure:

1. Obtain approval for confined space entry. Comply with any entry requirements
2. Remove the cover plate and inner lid on the west access manway
3. Remove the light oil suction line cover plate just east of the east manway
4. Using the waste oil vacuum truck suction line, pump all light oil off the top of the fluid in the tank until relatively clear water is obtained



ECOLOGIX HQB BELOW GROUND OIL/WATER SEPARATOR

HOW THEY WORK....

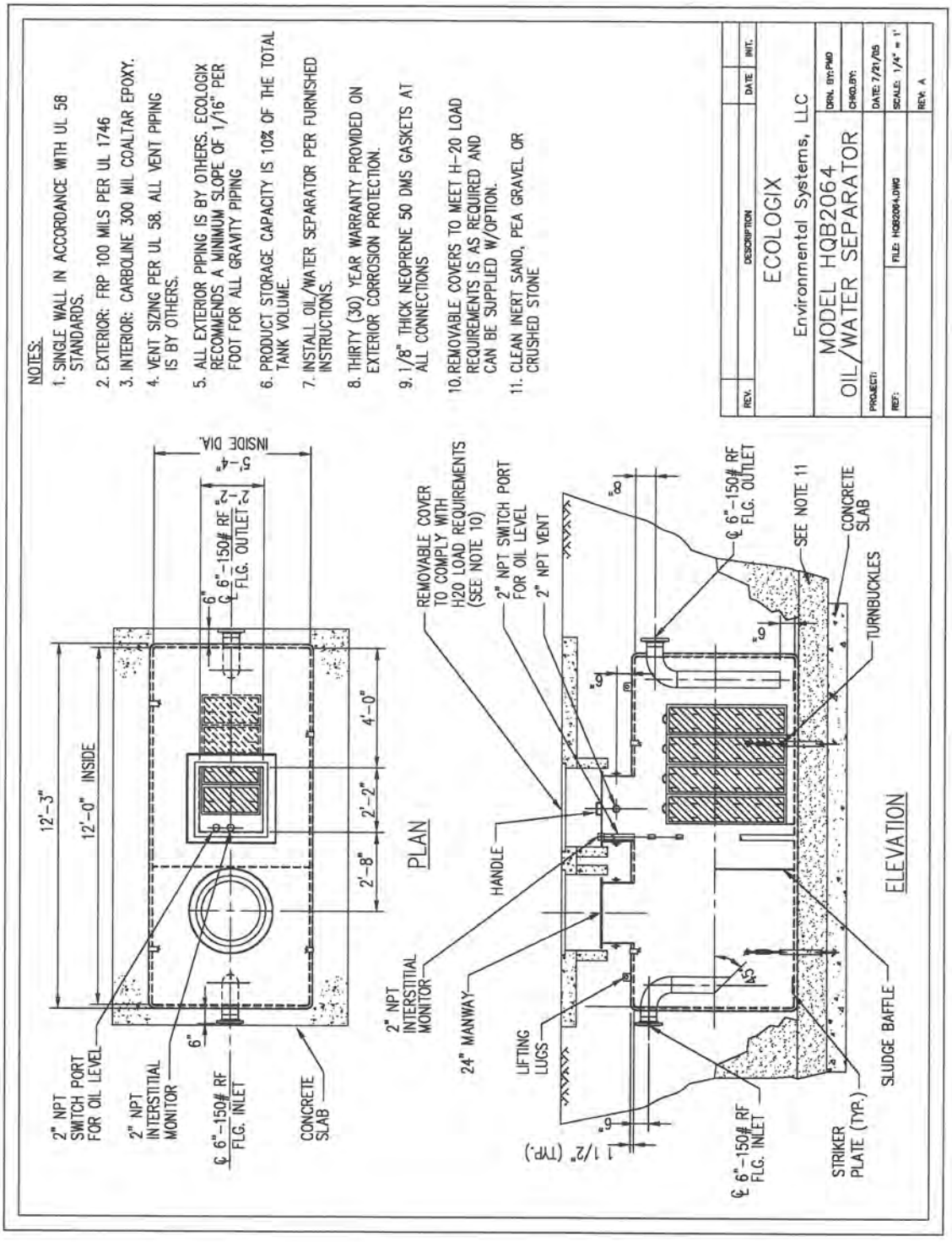
Ecologix HQB separator systems are stationary wastewater treatment vessels, filled with water. They contain specially designed internal baffles and coalescers to accelerate the separation process. The vessel is designed for unconfined access from above for inspection and maintenance.

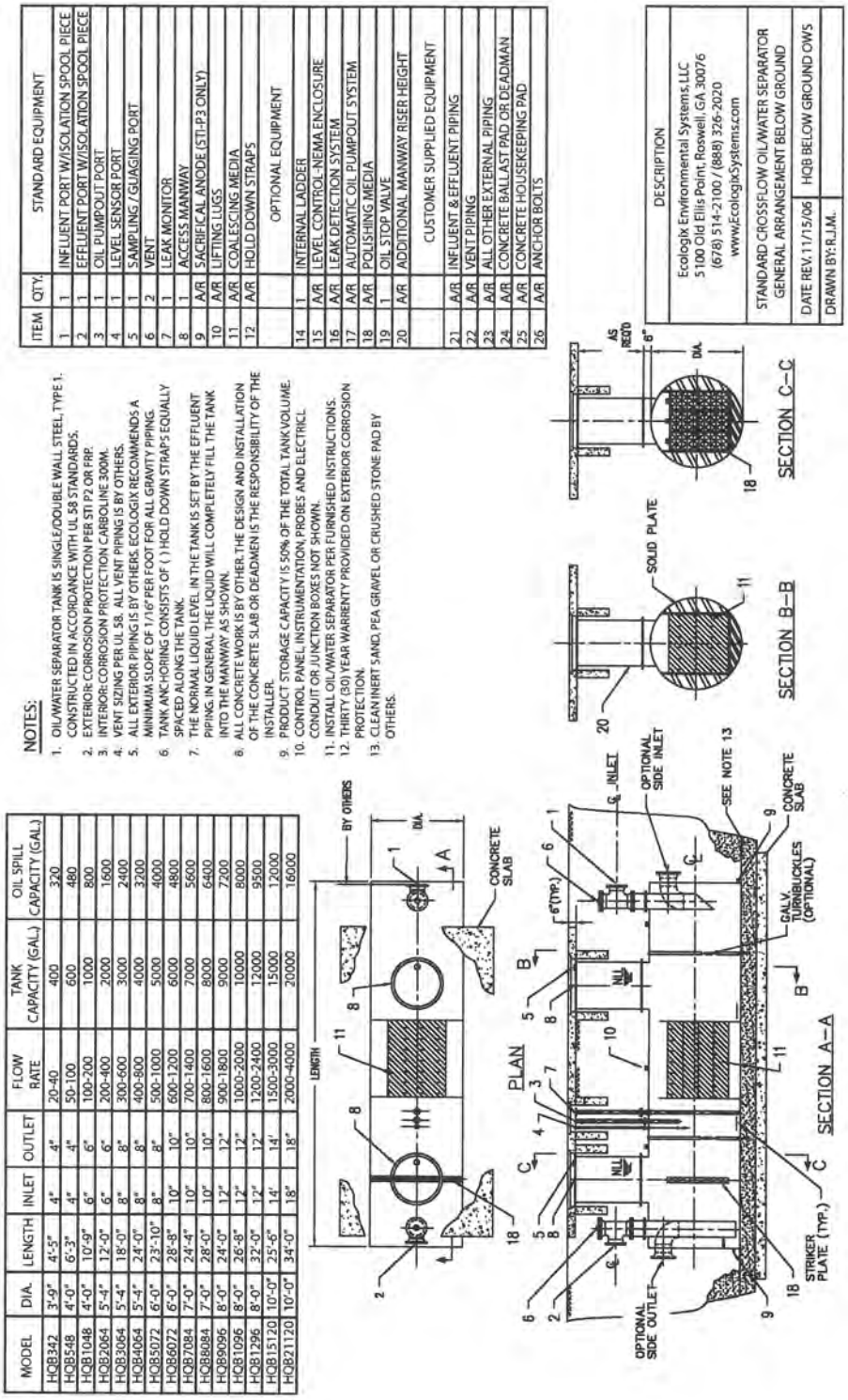
Inlet flow is directed against the striker plate to reduce flow turbulence and to distribute the flow evenly over the separator's cross sectional area. In the sediment chamber, heavy solids settle out and concentrated oil rises to the surface.

The oily water then passes through the coalescing media, an inclined arrangement of stacked parallel flat and corrugated plates. The corrugated underside of the media plates causes the oil to coalesce into sheets.

The oil globules then rise to the surface of the separation chamber, where the separated oil accumulates. Any remaining solids sink to the top of the plates and slide off into the solids collection area. The effluent flows downward to the oulet and is discharged by gravity displacement.

(Electronic oil level controls sound an alarm at high oil levels so that waste oil can be removed from the separator. Double wall separators are monitored with electronic leak detection systems for interstitial space.)


NOTES:
1. SINGLE WALL IN ACCORDANCE WITH UL 58 STANDARDS.
2. EXTERIOR: FRP 100 MILS PER UL 1746
3. INTERIOR: CARBOLINE 300 MIL COALTAR EPOXY.
4. VENT SIZING PER UL 58. ALL VENT PIPING IS BY OTHERS.
5. ALL EXTERIOR PIPING IS BY OTHERS. ECOLOGIX RECOMMENDS A MINIMUM SLOPE OF 1/16" PER FOOT FOR ALL GRAVITY PIPING
6. PRODUCT STORAGE CAPACITY IS 10% OF THE TOTAL TANK VOLUME.
7. INSTALL OIL/WATER SEPARATOR PER FURNISHED INSTRUCTIONS.
8. THIRTY (30) YEAR WARRANTY PROVIDED ON EXTERIOR CORROSION PROTECTION.
9. 1/8" THICK NEOPRENE 50 DMS GASKETS AT ALL CONNECTIONS
10. REMOVABLE COVERS TO MEET H-20 LOAD REQUIREMENTS IS AS REQUIRED AND CAN BE SUPPLIED W/OPTION.
11. CLEAN INERT SAND, PEA GRAVEL OR CRUSHED STONE
REV.
DESCRIPTION
DATE
INIT.
ECOLOGIX
Environmental Systems, LLC
MODEL HQB2064
OIL/WATER SEPARATOR
DRN. BY: PMD
CHKD. BY:
DATE: 7/21/05
PROJECT:
REF:
FILE: HQB2064.DWG
SCALE: 1/4" = 1'
REV: A
INSIDE DIA.
5'-4"
6"
℄ 6"-150# RF FLG. OUTLET
12'-3"
12'-0" INSIDE
4'-0"
2'-2"
2'-8"
PLAN
2" NPT SWITCH PORT FOR OIL LEVEL
2" NPT INTERSTITIAL MONITOR
℄ 6"-150# RF FLG. INLET
CONCRETE SLAB
REMOVABLE COVER TO COMPLY WITH H20 LOAD REQUIREMENTS (SEE NOTE 10)
2" NPT SWITCH PORT FOR OIL LEVEL
2" NPT VENT
℄ 6"-150# RF FLG. OUTLET
SEE NOTE 11
CONCRETE SLAB
TURNBUCKLES
HANDLE
2" NPT INTERSTITIAL MONITOR
24" MANWAY
LIFTING LUGS
1 1/2" (TYP.)
℄ 6"-150# RF FLG. INLET
STRIKER PLATE (TYP.)
SLUDGE BAFFLE
ELEVATION



MODEL	DIA.	LENGTH	INLET	OUTLET	FLOW RATE	TANK CAPACITY (GAL.)	OIL SPILL CAPACITY (GAL.)
HOB342	3'-9"	4'-5"	4"	4"	20-40	400	320
HOB548	4'-0"	6'-3"	4"	4"	50-100	600	480
HOB1048	4'-0"	10'-9"	6"	6"	100-200	1000	800
HOB2064	5'-4"	12'-0"	6"	6"	200-400	2000	1600
HOB3064	5'-4"	18'-0"	8"	8"	300-600	3000	2400
HOB4064	5'-4"	24'-0"	8"	8"	400-800	4000	3200
HOB5072	6'-0"	23'-10"	8"	8"	500-1000	5000	4000
HOB6072	6'-0"	28'-8"	10"	10"	600-1200	6000	4800
HOB7084	7'-0"	24'-4"	10"	10"	700-1400	7000	5600
HOB8084	7'-0"	28'-0"	10"	10"	800-1600	8000	6400
HOB9096	8'-0"	24'-0"	12"	12"	900-1800	9000	7200
HOB1096	8'-0"	26'-8"	12"	12"	1000-2000	10000	8000
HOB1296	8'-0"	32'-0"	12"	12"	1200-2400	12000	9500
HOB15120	10'-0"	25'-6"	14"	14"	1500-3000	15000	12000
HOB21120	10'-0"	34'-0"	18"	18"	2000-4000	20000	16000

NOTES:

1. OIL/WATER SEPARATOR TANK IS SINGLE/DOUBLE WALL STEEL, TYPE 1. CONSTRUCTED IN ACCORDANCE WITH UL 58 STANDARDS.
2. EXTERIOR CORROSION PROTECTION PER STI P2 OR FRP.
3. INTERIOR CORROSION PROTECTION CARBOLINE 300M.
4. VENT SIZING PER UL 58. ALL VENT PIPING IS BY OTHERS.
5. ALL EXTERIOR PIPING IS BY OTHERS. ECOLOGIX RECOMMENDS A MINIMUM SLOPE OF 1/16" PER FOOT FOR ALL GRAVITY PIPING.
6. TANK ANCHORING CONSISTS OF ( ) HOLD DOWN STRAPS EQUALLY SPACED ALONG THE TANK.
7. THE NORMAL LIQUID LEVEL IN THE TANK IS SET BY THE EFFLUENT PIPING. IN GENERAL, THE LIQUID WILL COMPLETELY FILL THE TANK INTO THE MANWAY AS SHOWN.
8. ALL CONCRETE WORK IS BY OTHER. THE DESIGN AND INSTALLATION OF THE CONCRETE SLAB OR DEADMEN IS THE RESPONSIBILITY OF THE INSTALLER.
9. PRODUCT STORAGE CAPACITY IS 50% OF THE TOTAL TANK VOLUME.
10. CONTROL PANEL, INSTRUMENTATION, PROBES AND ELECTRICL CONDUIT OR JUNCTION BOXES NOT SHOWN.
11. INSTALL OIL/WATER SEPARATOR PER FURNISHED INSTRUCTIONS.
12. THIRTY (30) YEAR WARRENTY PROVIDED ON EXTERIOR CORROSION PROTECTION.
13. CLEAN INERT SAND, PEA GRAVEL OR CRUSHED STONE PAD BY OTHERS.

ITEM	QTY.	STANDARD EQUIPMENT
1	1	INFLUENT PORT W/ISOLATION SPOOL PIECE
2	1	EFFLUENT PORT W/ISOLATION SPOOL PIECE
3	1	OIL PUMPOUT PORT
4	1	LEVEL SENSOR PORT
5	1	SAMPLING / GUAGING PORT
6	2	VENT
7	1	LEAK MONITOR
8	1	ACCESS MANWAY
9	A/R	SACRIFICAL ANODE (STI-P3 ONLY)
10	A/R	LIFTING LUGS
11	A/R	COALESCING MEDIA
12	A/R	HOLD DOWN STRAPS
		OPTIONAL EQUIPMENT
14	1	INTERNAL LADDER
15	A/R	LEVEL CONTROL-NEMA ENCLOSURE
16	A/R	LEAK DETECTION SYSTEM
17	A/R	AUTOMATIC OIL PUMPOUT SYSTEM
18	A/R	POLISHING MEDIA
19	1	OIL STOP VALVE
20	A/R	ADDITIONAL MANWAY RISER HEIGHT
		CUSTOMER SUPPLIED EQUIPMENT
21	A/R	INFLUENT & EFFLUENT PIPING
22	A/R	VENT PIPING
23	A/R	ALL OTHER EXTERNAL PIPING
24	A/R	CONCRETE BALLAST PAD OR DEADMAN
25	A/R	CONCRETE HOUSEKEEPING PAD
26	A/R	ANCHOR BOLTS

DESCRIPTION	
Ecologix Environmental Systems, LLC 5100 Old Ellis Point, Roswell, GA 30076 (678) 514-2100 / (888) 326-2020 www.EcologixSystems.com	
STANDARD CROSSFLOW OIL/WATER SEPARATOR GENERAL ARRANGEMENT BELOW GROUND	
DATE REV. 11/15/06	HQB BELOW GROUND OWS
DRAWN BY: R.J.M.	

ECOLOGIX INSTALLATION AND OPERATIONS MANUAL

Ecologix Environmental Systems, LLC
5100 Old Ellis Point, Suite 200
Roswell, GA 30075
Toll Free: 888-326-2020 Tel: 678.514.2100 Fax: 678.514.2106
Email: info@ecologixsystems.com Web Site: www.ecologixsystems.com

OIL WATER SEPARATOR OPERATION AND MAINTENANCE MANUAL

HQB2064

LIMITED WARRANTY

Ecologix equipment is warranted as to workmanship, material and performance when properly installed, used, and cared for, and provided that the original design criteria represent actual field data at the time of operation. Should any parts or parts prove defective within twenty-four (24) months from the date of purchase, it will be replaced F.O.B. destination without charge, provided the part (or parts) is returned transportation charges prepaid.

No allowance will be made for labor, transportation, or other charges incurred in the replacement or repair of defective parts by the customer. This warranty does not apply when damage is caused by conditions such as sand or abrasive materials pumped with the fluids, lightning, improper voltage supply, careless handling, improper installation, stray electrical interference, or due to substances or factors that were unknown to Ecologix at the time of purchase. Buyer shall have no claim, and no product or part shall be deemed defective, by reason of failure to resist erosive or corrosive action, nor for problems resulting from buildup of material within the equipment.

This warranty applies only to seller's equipment, under use and service in accordance with the seller's written instructions, recommendations and ratings for installation, operating and maintenance, and service. All claims for defective products, parts, or work under this warranty must be made in writing immediately upon discovery and, in any event, within one year of purchase.

This warranty is a *Limited Warranty*, anything in the warranty notwithstanding. Implied warranties for particular purpose and merchantability shall be limited to the duration of express warranty. The manufacturer expressly disclaims and excludes any liability of consequential or incidental damages for breach of any express or implied warranty.

Ecologix Environmental Systems, LLC www.ecologixsystems.com
Phone 678-514-2100 · Fax 678-514-2106

Table of Contents

SECTION

1.0) INTRODUCTION

2.0) SYSTEM DESCRIPTION AND REQUIREMENTS

3.0) SAFETY AND ENVIRONMENTAL CONSIDERATIONS

4.0) INSPECTION AND OFF LOADING

5.0) SYSTEM INSTALLATION

6.0) SEPARATOR SET UP AND START UP PROCEDURE

7.0) QUALITY ASSURANCE

8.0) MAINTENANCE PROCEDURES

9.0) TROUBLESHOOTING

10.0) MECHANICAL INFORMATION
- **a) OWS GENERAL ARRANGEMENT DRAWING**
- **b) OWS INSTALLATION DRAWING**
- **c) CONTROL PANEL AND FLOAT SWITCH INFORMATION**

11.0) WARRANTY

Ecologix Environmental Systems, LLC www.ecologixsystems.com
Phone 678-514-2100 · Fax 678-514-2106

1.0) INTRODUCTION

Ecologix Environmental Systems, LLC (Ecologix) Oil Water Separator (OWS) Model **HQB2064** will remove essentially all free and dispersed, non-emulsified oil, and settleable solids from the oil water mixture at a flow rate of 150 GPM at a temperature of 55° F. The design utilizes the difference in specific gravity between oil and water (buoyancy force) enhanced by the use of 24 cubic feet of HD Q-PAC coalescing plates. The separator is designed to receive oily water by gravity/pumped flow that will not mechanically emulsify the oil and will process it on a once through basis. The oil water separator will be a direct buried unit in accordance with the requirements of UL 58 and designed to withstand earth load, live load and hydraulic pressure. The separator will be a single wall unit with exterior corrosion protection. The tank comes with a 30 year limited warranty on exterior corrosion protection. The HD Q-PAC coalescing plates are manufactured of UV Resistant Polypropylene material.

2.0 SYSTEM DESCRIPTION AND REQUIREMENTS

2.1 *FABRICATION:* The oil water separator is a special purpose prefabricated parallel-corrugated plate, cylindrical, gravity displacement, single wall unit. The separator capacities, dimensions and construction, shall be in strict accordance with UL 58, and UL 1746. The separator shall be comprised of a tank containing an inlet compartment, separation chamber, sludge chamber, oil storage compartment and clean water outlet chamber.

2.2 *TANK:* The tank shall be constructed of 10 gauge minimum thick carbon steel plate conforming to ASTM A36. Welding will be in accordance with AWS D1.1 to provide a watertight tank that will not warp or deform under load. Pipe connections to the exterior shall be as follows:

2.2.1 *PIPE CONNECTIONS*: All connections 3" and smaller are FNPT couplings. All connections 4" and larger are flat face flanges with ANSI 150 pound standard bolt circle. Use flanged piping connections that conform to ANSI B16.5.

2.3 *SEPARATOR CORROSION PROTECTION*: (For Carbon Steel Only) after shop hydrostatic test has been successfully completed, a coating system will be applied to the interior and exterior surfaces of the separator. Interior and exterior shall be sandblasted to SSPC-SP10 & SSPC-SP6; Interior lined with Tnemec Series 61 liner to 9 mils MDFT; Exterior coated with FRP Elutron to 100 mils MDFT.

2.4 *MANWAYS*: Manways will provide access into the separator to service the coalescer and sludge removal from grade level. The manways will be provided complete with extension, clamp down cover and gasket.

2.5 *LIFTING LUGS*: The tank shall be provided with properly sized lifting lugs for handling and installation.

2.6 *INLET COMPARTMENT*: The inlet chamber shall be comprised of a non-clog diffuser to distribute the flow across the width of the separation chamber. The inlet compartment shall be of sufficient volume to effectively reduce influent suspended solids, dissipate energy and begin separation. The media will sit elevated on top of a sludge baffle. The sludge baffle will be provided to retain settleable solids and sediment from entering the separation chamber.

2.7 *SEPARATION CHAMBER*: The oil separation chamber shall contain HD Q-PAC Coalescing Media containing a minimum of 132 square feet per cubic foot of effective coalescing surface area. The medias needle like elements (plates) shall be at 90 degrees to the horizontal or longitudinal axis of the separator. Spacing between these elements shall be spaced 3/16" apart for the removal of a minimum of 99.9% of free droplets 20 micron in size or greater. The elements are positioned to create an angle of repose of 90 degrees to facilitate the removal of solids that may tend to build up on the coalescing surfaces, which would increase velocities to the point of discharging an unacceptable effluent. Laminar flow with a Reynolds Number of less than 500 at a maximum designed flow rate shall be maintained throughout the separator packed bed including entrance and exit so as to prevent re-entrainment of oils with water. Flow through the polypropylene coalescing media shall be crossflow perpendicular to the vertical media elements such that all 132 square feet/cubic foot of coalescing media is available for contact with the coalescing surfaces. None of the coalescing media surfaces shall be pointing upward so as not to be available for contact with the crossflowing oily water. The media shall have a minimum of 87% void volume to facilitate sludge and dirt particles as they fall off the vertical elements and settle in the sludge compartment. The media when installed in crossflow OWS shall meet US EPA Method 413.2 and also European Standard 858-1.

2.8 *SLUDGE CHAMBER*: The sludge chamber shall be located prior to the coalescing compartment for the settling of any solids. It shall also prevent any solids from entering the clean water chamber.

2.9 *OIL STORAGE*: The waste oil storage shall be an integral part of the separator, and have a capacity of 30 percent of the total separator volume. Oil will be stored on the surface of the water and can be pumped away when oil/water interface reaches a predetermined depth.

2.10 *CLEAN WATER CHAMBER:* The tank will be provided with a clean water chamber which allows the water to leave the separator by gravity flow through the clean water outlet port.

2.11 *VENTS AND HOLD DOWN STRAPS:* (If required) sufficient vents and hold down straps will be provided.

Ecologix Environmental Systems, LLC www.ecologixsystems.com
Phone 678-514-2100 · Fax 678-514-2106

3.0 SAFETY AND ENVIRONMENTAL CONSIDERATIONS

3.1 All normal safety precautions should be taken with this equipment to prevent accidents and fires.

3.2 Normal fire prevention measures must be taken to prevent fire danger from separated oil.

3.3 Care should be taken to keep the area around the separator clean to prevent accidents.

3.4 Disposal of the separated oil and solids, which may contain hazardous material, must comply with the regulations of the authority having jurisdiction.

3.5 Safety and environmental protection are the responsibility of the user. ECOLOGIX assumes no liability for misuse of this separator or for use outside the purpose for which it is designed.

4.0 INSPECTION AND OFFLOADING

4.1 *INSPECTION*: Inspect the oil water separator upon delivery for any damage, which may have occurred in shipment. Areas most susceptible to damage are connections and cover openings. If the separator is damaged, ECOLOGIX should be notified immediately. The off loading personnel should note the extent of damage and sign and date the bill of lading. A claim should be filed with the delivering carrier.

4.2 *OFF LOADING*: The separator must be carefully removed from the truck so the unit is not damaged. Components for the separator are often supplied in a separate carton. Proper rigging practices should be observed at all times. Hoisting equipment operators should attach a guide line to prevent the separator from swinging out of control. Do not drop the separator or allow it to fall hard in the process of inverting, turning, or moving. Do not slide the separator.

4.3 *COATINGS*: All damaged coatings should be touched up immediately ! Please contact the factory if more specific information is required. Under no conditions should chains or cables be put around the separator. Use spreader bars, and the lifting eyes on the unit.

4.4 *STORAGE*: If the equipment is not to be installed at the time of delivery, it should be stored in an area away from traffic. The ground should be level and free sharp objects that might damage the coatings. All equipment should be stored off the ground on timbers. All factory packing should remain intact until the unit is ready for installation. Equipment should be stored indoors. If not, care should be taken that tanks do not fill up with water and debris. Covering all of the equipment with a tarp is strongly recommended.

Ecologix Environmental Systems, LLC www.ecologixsystems.com
Phone 678-514-2100 · Fax 678-514-2105

5.0 SYSTEM INSTALLATION

When placing the separator for system operation, be sure it is installed in a concrete foundation, which provides adequate support under full load operating conditions. Even if a mounting skid is used, a concrete pad or other properly designed structure must be installed as a foundation. The length and width of this pad are dependent upon the footprint of the unit. Thickness of the concrete pad depends on local soil and frost conditions. A local qualified civil engineer should be contacted to determine these dimensions.

5.1 *FOR EQUIPMENT BURIED IN GROUND ON CONCRETE SLAB FOLLOW INSTALLATION INSTRUCTIONS PROVIDED BY THE STEEL TANK INSTITUTE FOR UNDERGROUND TANKS ON THE FOLLOWING PAGES.*

5.1.1 A concrete slab must be installed around the equipment if the separator is going to be subject to traffic loads. It should be designed to carry the load and transmit the load into adjacent, undisturbed soil, not onto the tank side walls!

5.1.2 If a concrete pad is not installed and the equipment is subject to traffic loads, deformation or in some cases total collapse of the equipment may occur. ECOLOGIX cannot be held responsible for equipment subjected to such loads!

5.2 *LEVELING*

5.2.1 At this point the equipment should be set exactly in place and the anchor bolts should be installed.

5.2.2 Remove any lids.

5.2.3 The tankage should now be made as level as possible. The absolute minimum requirements being, within +/- 1/16" per foot from inlet to outlet end of tank and +/- 1/16" per foot from side to side, maximum of +/- 1/4" total. Shim the tank, if necessary, until these parameters are met. We recommend the use of stainless steel shim stock. When installing shims, make sure to locate them under all vertical tank supports.

NOTE: We cannot stress enough the leveling process. It is better to invest a little time at this point than to try to correct an improperly leveled tank later. A level installation functions better, has a better appearance and will give you fewer problems in the future.

The next step toward system start involves the plumbing and electrical connections. Any valves and/or piping should be adequately supported and accepted piping and valve practices must be followed for proper system operation. Any pump or level probe wiring and conduit connections should be made at this time. If the unit includes internal level detection, insert the level detection level indicated on the drawing.

5.3 PLUMBING

5.3.1 When making connections to the equipment do not use the equipment as a pipe support. All plumbing should stand on its own if disconnected from equipment. ECOLOGIX cannot be held responsible for damage caused by using this equipment to support your plumbing.

5.3.2 Connections do not have to be made in the order listed below. Review your situation and make the connections in the most convenient order for your particular application.

5.3.3 Connect the outlet plumbing. The effluent plumbing must be the same size or larger than the nozzle size of the equipment. Do not reduce the size of the effluent piping as this might cause hydraulic overloading of the equipment. Also, try to run the discharge piping through as few changes as possible, as short a distance as possible and at a pitch of not less than 1/16" per foot. On gravity flow units it may be necessary to vent exterior piping to prevent air locks in discharge pipe.

5.3.4 Connect the inlet plumbing. The influent must be the same size or smaller than the nozzle size on the equipment. Do not increase the size of the influent piping as this might cause hydraulic overloading of the equipment. Also, the pitch of the pipe should not exceed 1/16" per foot.

5.3.5 On most units, vents will have been provided. These vents have been supplied to prevent air locks during surge conditions. For both indoor and outdoor applications the vents should be run to a location where noxious and sometimes volatile gas would pose no hazard. Follow all applicable fire codes with regards to size of vent pipe.

Warning: Do not plug or otherwise obstruct air flow through the vents. Obstructing air flow through the vents could damage the unit and/or create a hazardous condition.

6.0 SEPARATOR SET UP AND START UP PROCEDURES

6.1 *SEPARATOR SET UP PROCEDURES*:

The inlet flow to the separator must be by gravity or a positive displacement pump upstream. Centrifugal pumps greatly agitate the oil and water and tend to make a stable emulsion that is very difficult, if not impossible, to separate by gravity settling.

Separator flow should be controlled upstream to ensure even, steady flow, and stable conditions in the separator. Unstable flows tend to reduce efficiency and may cause high oil concentration at the outlet.

6.1.1 The separator tank is atmospheric in design and must be vented to the atmosphere. Consult the OWS drawing for location of all vents.

6.1.2 To achieve the desired flow, excessive throttling of the input must be avoided as this will also cause emulsification of the oil, adversely effecting separator performance. Especially avoid the use of globe type or other valves with high-pressure drops.

6.1.3 It is recommended that the effluent water flows by gravity flow from the separator. The pressure loss for the water effluent pipe shall not exceed the drop elevation of the customer lines. External piping should be separately supported. The separator is not designed to support piping.

6.1.4 To install the separator, follow these steps:
(Please refer to attached installation drawing)

1. Ensure that the source of the water to be treated is properly regulated and not provided with a centrifugal pump or other device, which will cause emulsification such as a high-pressure drop valve.

2. Ensure that the separator is securely installed per installation drawing.

6.2 *SEPARATOR START-UP PROCEDURES*:

6.2.1 Initial start-up.

This procedure is to be followed after the installation of the separator or after the separator has been drained for maintenance and is ready to be restarted.

6.2.1.1 Ensure that the owner supplied upstream influent flow regulating valve is closed.

6.2.1.2 Before starting the flow to the unit, remove the coalescer access cover and ensure that the HD Q-PAC packs have not shifted and are securely fastened. The separator should contain plate packs, polishing pack and adjustable oil skimmer pipe tube. (Slot of skimmer to be turned upward away from water)

6.2.1.3 Ensure that there are not obstructions in the water outlet piping.

6.2.1.4 With the coalescer access cover off, fill the tank with clean water, establishing flow from the effluent opening. Check for leaks.

6.2.1.5 Allow the influent oil water mixture into the OWS tank.

6.2.1.6 Replace the coalescer access cover and bolt down liquid tight.

6.2.2 Normal operation:

Carefully maintain flow at the rate set when flow was established. Once a sufficient quantity of oil has accumulated in the separator, turn the slot of the skimmer into the oil layer (The oil will then be decanted into an integral oil

storage compartment or to a separate tank outside of the separator). Disposal of the oil must comply with regulations of the authority having jurisdiction.

7.0 QUALITY ASSURANCE

7.1 *INSPECTION*: Examine each component of the separator for compliance with requirements indicated in Section 2 - System Description & Requirements. This element of inspection shall encompass visual examination.

7.2 *PRETEST PROCEDURES*: After separator has been leveled, hydrostatically test unit for (4) hours by filling full with potable water, provided by customer, with means of getting it from the nearest source by the installer. Acceptance criteria for this test is no leakage after four (4) hours.

7.3 *TESTS*: After hydrostatic test has been successfully completed and unit has been properly connected to influent and effluent piping, allow influent oil water mixture of 100 ppm, to flow into separator filled with potable water. After injection, operate unit for a minimum of ten tank volume changes prior to testing for contaminant removal.

7.4 *TEST FOR CONTAMINANTS*: The installer shall test the effluent to ensure that it meets oil concentration levels described in Section 2 - System Description & Requirements. Test shall be performed by an independent certified testing laboratory.

7.5 *ANALYTICAL METHODS:* Test and sample preservation methods for test contaminants shall be in accordance with the latest revision of EPA Methods for Chemical Analysis of Water and Wastes. Effluent oil concentration shall be measured by gravimetric, Separatory Funnel Extraction Method API 413.1.

8.0 MAINTENANCE

8.1 The separator should be checked periodically to determine if excessive amounts of solids and debris have accumulated. If this happens the solids may accumulate enough to plug the lower part of the HD Q-PAC plates. In this case, efficiency will be reduced and oil in the outlet water may exceed specified effluent limits.

8.2 After the first 6 months of operation, the inlet area should be inspected and cleaned as follows:

1. Stop the flow of influent to the separator.
2. Remove separator cover.
3. Dispose of separated oil per regulatory procedures.
4. Remove water from separator through drain or hose.

8.3 Measure and record the depth of the solids. Use this measurement as the timing basis for the next solids inspection and clean out. Consult OWS drawing for depth of sludge baffle. Solids should not exceed this depth.

8.4 The HD Q-PAC plates can be either cleaned in place or removed and cleaned .

1. For cleaning in place, connect a pressure water hose (1-15 psig) and insert in plate spacing on top of the plate packs. As the water flushes the dirt out of the plate packs it should be removed by the vacuum hose.

2. For removing plate packs outside of separator. Flush with garden hose (10-15 psig) over an area to prevent discharge of flushed water into groundwater. It is only necessary to remove all sludge from between the plates and any very heavy oil coating.

8.5 Examine tank interior for damage and repair any damage to internal coating.

8.6 To restart separator, reinstall HD Q-PAC plate packs and polishing pack in original position. Make sure that both are securely in place so that they do not float when unit is operational.

8.7 For start up, repeat steps in section 6 of these instructions.

9.0 TROUBLESHOOTING

Regularly monitor the quality of the effluent leaving the separator. If any loss in effluent quality is observed, steps should be taken to correct the problem immediately. Some things to check if effluent quality has deteriorated are:

1. Have you exceeded the separators rated flow? If so, return the flow rate to the design flow rate.

2. Have you allowed the sludge to accumulate to a point where it has started to affect the performance of the separator? If so, take steps to have the sludge removed immediately. If it cannot be pumped out, you will have to drain the separator and remove the accumulated sludge.

3. Check the influent for surfactants or chemical emulsifiers. If any are present, you may need additional treatment in order to meet discharge requirements.

4. Are you pumping into the separator? If so, you may be mechanically emulsifying the influent oil. Sample the oil water from both before and after the pump. There should be no differences between the two samples. If you are mechanically emulsifying the oil you may have to change your influent pump to a low RPM positive displacement pump or similar pump that will cut down on shearing.

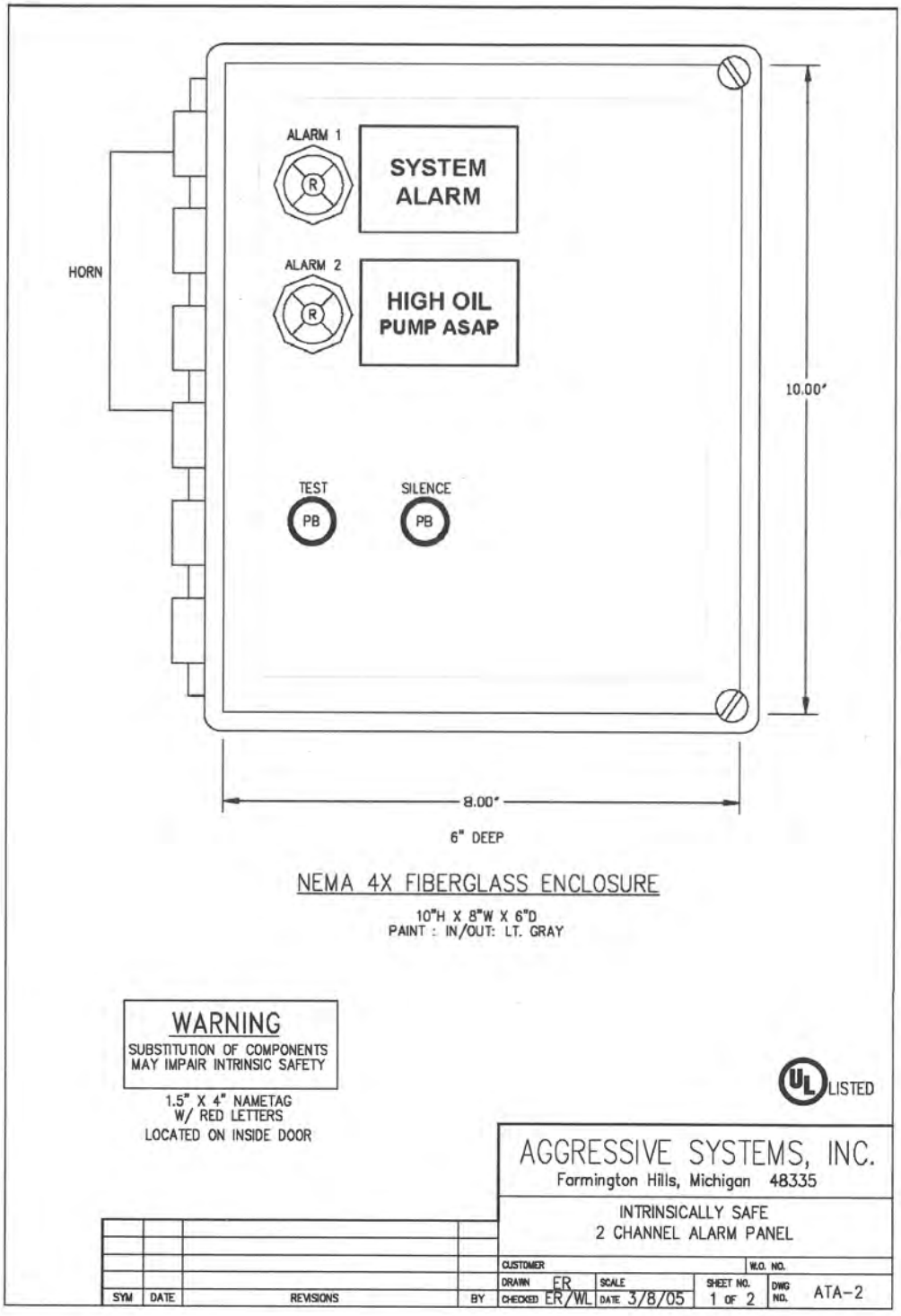
5. Check to make sure that the oil depth in the separator is not too great, a deep layer of product will reduce the efficiency of the separator. Free product should be removed and the separator put back in service.

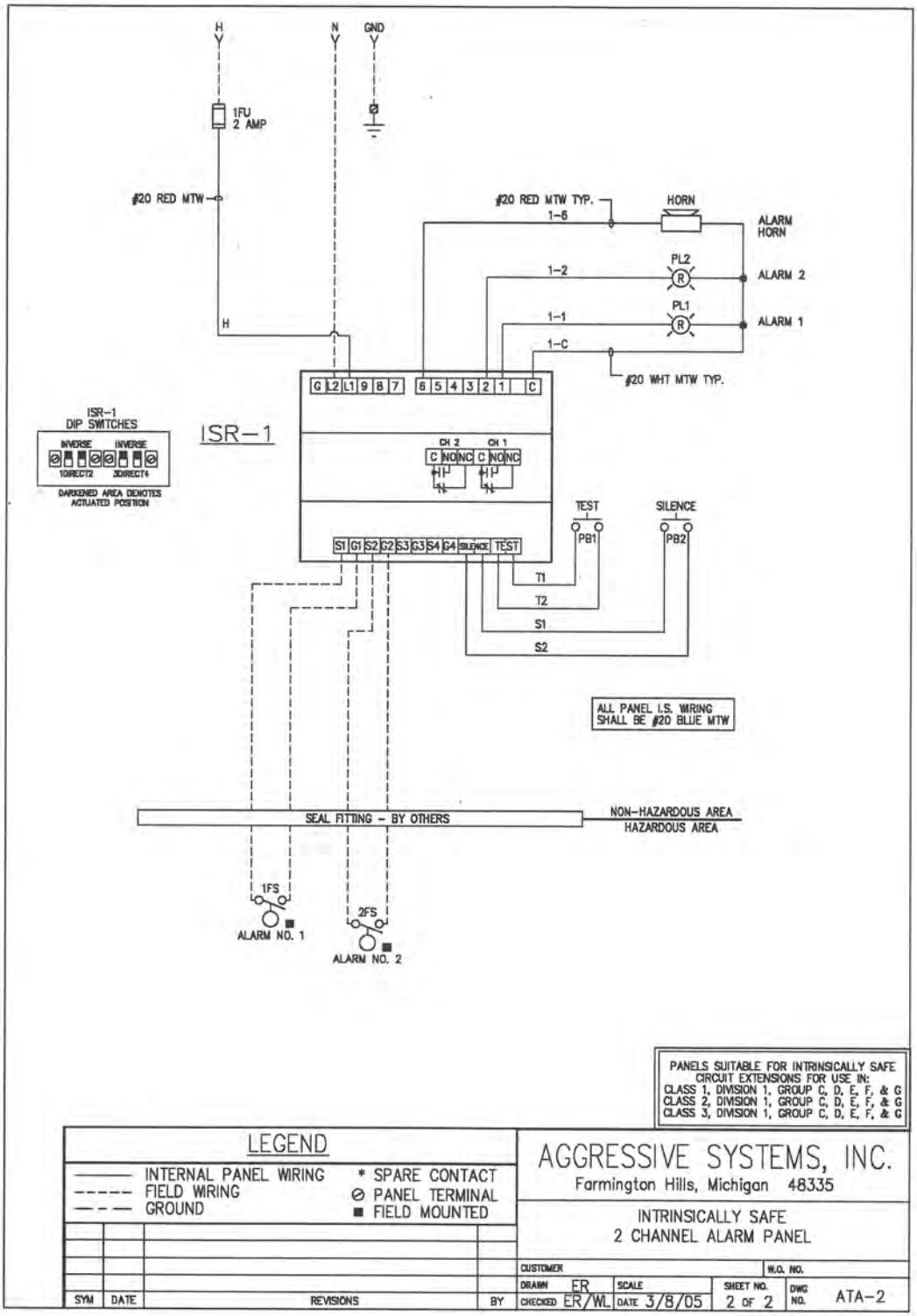
9.1 TROUBLESHOOTING GUIDELINE

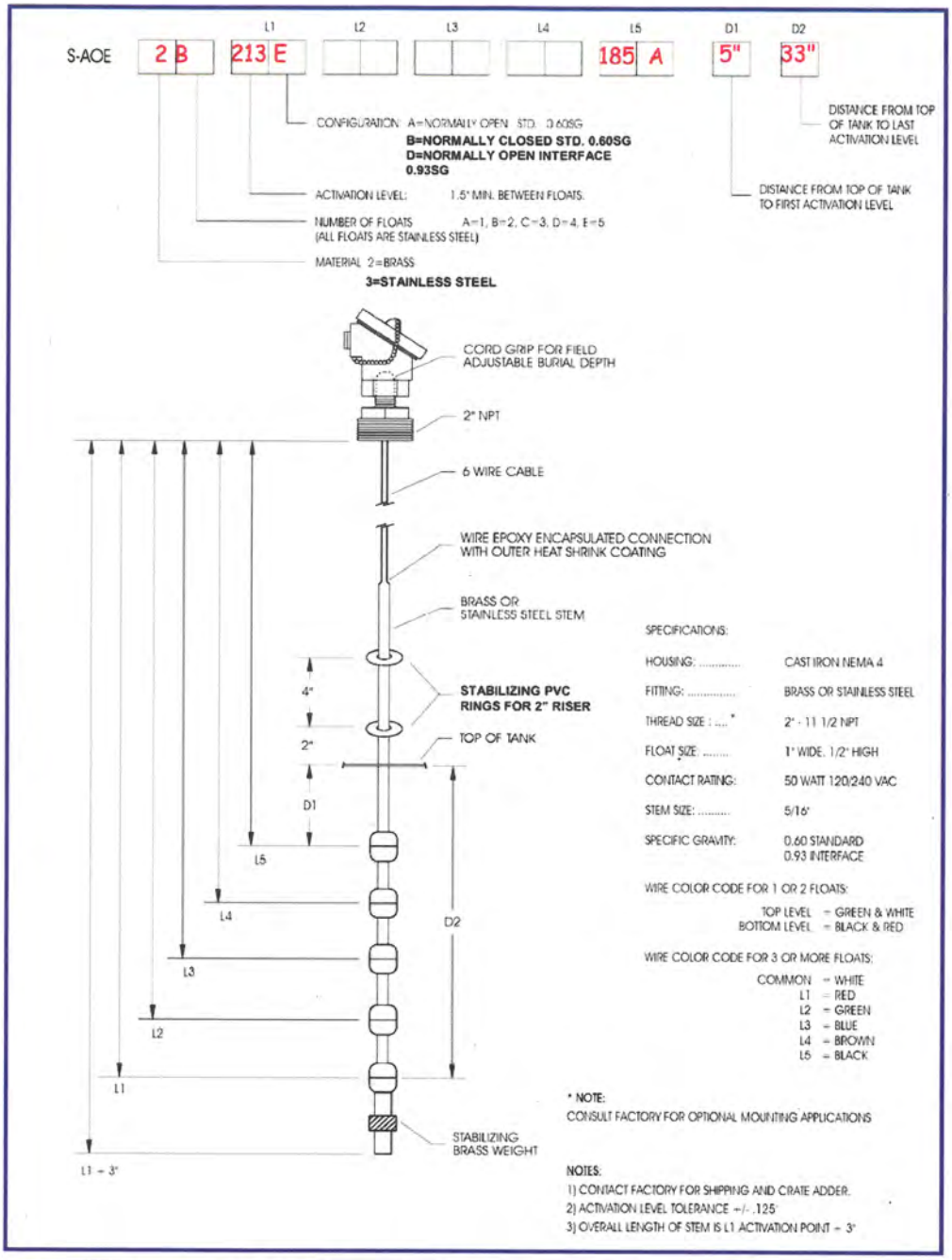
PROBLEM	POSSIBLE CAUSE	DIAGNOSTIC TECHNIQUE	CORRECTIVE ACTION
EFFLUENT CONCENTRATION TOO HIGH	Oil Concentration too Great for Design	Sample Influent	Decrease the Flow Rate
	Flow Too Great For Design	Check Flow	Decrease the Flow Rate
	Plates Blocked	Inspect, Remove Plates if Necessary	Clean Per Par. 8.4 Instructions and Reinstall.
	Solids have Accumulated Into Coalescer Plates	Check Depth of Solids in Coalescer Compartment	Remove Solids From Compartment See Par. 8.3.
TANK IS OVERFLOWING	Output Line Restricted	Check Flow	Remove Restriction

Note: For proper operation, outlet line should be as large as outlet nozzle unless unit is to be operated at very large flows

AGGRESSIVE SYSTEMS LEVEL PROBE AND ALARM PANEL




H
N
GND
1FU
2 AMP
#20 RED MTW
#20 RED MTW TYP.
1-5
HORN
ALARM HORN
1-2
PL2
ALARM 2
1-1
PL1
ALARM 1
1-C
#20 WHT MTW TYP.
G L2 L1 9 8 7
6 5 4 3 2 1 C
ISR-1
DIP SWITCHES
INVERSE INVERSE
1DIRECT2 3DIRECT4
DARKENED AREA DENOTES ACTUATED POSITION
ISR-1
CH 2 CH 1
C NO NC C NO NC
TEST
SILENCE
PB1
PB2
S1 G1 S2 G2 S3 G3 S4 G4 SILENCE TEST
T1
T2
S1
S2
ALL PANEL I.S. WIRING SHALL BE #20 BLUE MTW
SEAL FITTING - BY OTHERS
NON-HAZARDOUS AREA
HAZARDOUS AREA
1FS
ALARM NO. 1
2FS
ALARM NO. 2
PANELS SUITABLE FOR INTRINSICALLY SAFE CIRCUIT EXTENSIONS FOR USE IN:
CLASS 1, DIVISION 1, GROUP C, D, E, F, & G
CLASS 2, DIVISION 1, GROUP C, D, E, F, & G
CLASS 3, DIVISION 1, GROUP C, D, E, F, & G
LEGEND
INTERNAL PANEL WIRING
FIELD WIRING
GROUND
* SPARE CONTACT
⊘ PANEL TERMINAL
■ FIELD MOUNTED
SYM DATE REVISIONS BY
AGGRESSIVE SYSTEMS, INC.
Farmington Hills, Michigan 48335
INTRINSICALLY SAFE
2 CHANNEL ALARM PANEL
CUSTOMER
W.O. NO.
DRAWN ER
CHECKED ER/WL
SCALE
DATE 3/8/05
SHEET NO. 2 OF 2
DWG NO. ATA-2



AGGRESSIVE Systems, Inc. 24361 Indoplex Circle, Farmington Hills, MI 48335
PHONE (248) 477-5300 FAX (248) 477-5626 WEBSITE: http://www.aggressivesystems.com

WARRICK INTERFACE RELAY

MODEL NUMBER	HAZARDOUS LOCATIONS	MAXIMUM CABLE LENGTH SHALL NOT EXCEED
47 Series	Class I, Group C & D; Class II, Group E, F & G	900 ft. For a Float Sensor 450 ft. For a Probe Sensor

NOTE:

Refer to Series 47 data information for distance recommendations so not to exceed the maximum capacitance or inductance limitations of the control.

Connect line terminals 1FU (fuse block) and L2 (neutral) of the control to incoming single phase (120 vac.) supply line

ALARM SENSOR CONNECTION:

Connect the ALARM 1 sensor to terminals S1 and G1 of the control.

Connect the ALARM 2 sensor to terminals S2 and G2 of the control.

Auxiliary contacts for remote monitoring of the alarm conditions are provided from slave relays for each alarm channel as shown on the wiring diagram. A form "C" contact is provided, a common, normally closed and normally open .The terminals will change states when the function is energized, and return to the normal state when the device is deenergized.

The contacts are isolated load contacts (Dry) and must be wired in series with its load and that series branch circuit connected across a power source compatible with the load.

OPERATING INSTRUCTIONS

If the ALARM 1 sensor closes, an indication light and audible alarm will energize. The audible alarm can be silenced by momentarily depressing the SILENCE pushbutton, however the indication light will remain on until the alarm condition is corrected.

If the ALARM 2 sensor closes, an indication light and audible alarm will energize. The audible alarm can be silenced by momentarily depressing the SILENCE pushbutton, however the indication light will remain on until the alarm condition is corrected.

SYSTEM TEST INSTRUCTIONS:

A normally open TEST pushbuttons are provided on the door of the control box for testing all alarm functions.

When the test pushbutton is depressed, the alarm indicating lights and audible alarm will be energized and the Normal light will deenergize. The audible alarm can be silenced by momentarily depressing the SILENCE pushbutton, however, the light will remain energized until the TEST pushbutton is released.

INSTALLATION AND OPERATION INSTRUSTIONS FOR AGGRESSIVE SYSTEMS, INC. CONTROL PANEL ATA-2

INSTALLATION INSTRUCTIONS

IMPORTANT: Completely read and thoroughly understand these instructions before proceeding to install and wire the control.

Mount control box vertically on wall or other solid structure. The maximum distance between the control box and the location of the electrodes is determined by the sensitivity of the 47 control(s). This information is supplied on Form 470.

INTRINSICALLY SAFE GENERAL INFORMATION

IMPORTANT: BEFORE PROCEEDING TO INSTALL AND WIRE THE ALARM PANEL, READ AND THOROUGHLY UNDERSTAND THESE INSTRUCTIONS.

Experienced personnel should use the following information as a guide to the installation of intrinsically safe alarm panels. Selection or installation of equipment should always be accompanied by competent technical assistance. We encourage you to contact Aggressive Systems, Inc. or its local representative if further information is required.

The control panel contains a U.L. Listed interface relay with Intrinsically Safe Sensing Circuits. The interface relay is Associated Apparatus listed under Process Control equipment, with Intrinsically Safe Outputs for Interface into Division 1 Hazardous Locations. The Circuits are to be connected to any simple non-energy generating or storing device such as a pushbutton, limit, float switch, or any Warrick electrode and fitting assembly

The control panel is reassembled and ready to wire. Locate the panel in a non-hazardous area where an explosive environment does not exist.

Cabinet and mounting plate to be connected to a good earth ground. For additional guidance on "Hazardous Location Installation," and "Intrinsically Safe Devices," consult ANSI/ISA standard RP 12-6 or NEC ARTICLES 500 through 516.

CAUTION:
Intrinsically safe wiring must be kept separate from non-intrinsically safe wiring. Special procedures have been followed during the manufacturing of these control panels to insure proper spacing. Some models incorporate isolated barriers or covers for this purpose.

A separate rigid metallic conduit should be used to enclose the conductors of the intrinsically safe circuit. Multiple runs of intrinsically safe wiring may be run in the same conduit only where at least 0.25mm (0.010 inch) thick insulation, suitable for the maximum temperature, is used on each conductor. Refer to ANSI/ISA RP 12.6 for details. Conduit or cable, containing the intrinsically safe wiring, shall be sealed in accordance with the National Electrical Code, NFPA No. 70, (approved sealing fitting), where the conduit enters or exits the hazardous locations.

INDUCTANCE AND CAPACITANCE: For intrinsically safe wiring use 16 AWG or 14 QWG TYPE THHN/THHW/THWN or MTW. By using these types of wire in conjunction with a limitation on distance, you will not exceed the maximum capacitance or inductance for field wiring.

Use the following chart as a guide for maximum total length of all the intrinsically safe wiring (of each conductor), excluding any ground wiring.

3.4 Sitrans Flow Sensor

Quick Start Manual · May 2008

English
Dansk
Deutsch
Ελληνικά
Español
Français
Italiano
Nederlands
Português
Suomi
Svenska

million
in one

sitrans

PROBE LU (PROFIBUS PA)

SIEMENS

Safety Guidelines: Warning notices must be observed to ensure personal safety as well as that of others, and to protect the product and the connected equipment. These warning notices are accompanied by a clarification of the level of caution to be observed.

Qualified Personnel: This device/system may only be set up and operated in conjunction with this manual. Qualified personnel are only authorized to install and operate this equipment in accordance with established safety practices and standards.

Unit Repair and Excluded Liability:

- The user is responsible for all changes and repairs made to the device by the user or the user's agent.
- All new components are to be provided by Siemens Milltronics Process Instruments Inc.
- Restrict repair to faulty components only.
- Do not reuse faulty components.

Warning: This product can only function properly and safely if it is correctly transported, stored, installed, set up, operated, and maintained.

This product is intended for use in industrial areas. Operation of this equipment in a residential area may cause interference to several frequency based communications.

Note: Always use product in accordance with specifications.

Copyright Siemens Milltronics Process Instruments Inc. 2008. All Rights Reserved	Disclaimer of Liability
This document is available in bound version and in electronic version. We encourage users to purchase authorized bound manuals, or to view electronic versions as designed and authored by Siemens Milltronics Process Instruments Inc. Siemens Milltronics Process Instruments Inc. will not be responsible for the contents of partial or whole reproductions of either bound or electronic versions.	While we have verified the contents of this manual for agreement with the instrumentation described, variations remain possible. Thus we cannot guarantee full agreement. The contents of this manual are regularly reviewed and corrections are included in subsequent editions. We welcome all suggestions for improvement. Technical data subject to change.

MILLTRONICS® is a registered trademark of Siemens Milltronics Process Instruments Inc.

Contact SMPI Technical Publications at the following address:
Technical Publications
Siemens Milltronics Process Instruments Inc.
1954 Technology Drive, P.O. Box 4225
Peterborough, Ontario, Canada, K9J 7B1
Email: **techpubs.smpi@siemens.com**

European Authorized Representative

Siemens AG
Industry Sector
76181 Karlsruhe
Deutschland

- For a selection of Siemens Milltronics level measurement manuals, go to: **www. siemens.com/processautomation**. Under Process Instrumentation, select *Level Measurement* and then go to the manual archive listed under the product family.
- For a selection of Siemens Milltronics weighing manuals, go to: **www. siemens.com/processautomation**. Under Weighing Technology, select *Continuous Weighing Systems* and then go to the manual archive listed under the product family.

© Siemens Milltronics Process Instruments Inc. 2008

SITRANS Probe LU (PROFIBUS PA) Quick Start Manual

English

This manual outlines the essential features and functions of the SITRANS Probe LU (PROFIBUS PA). We strongly advise you to acquire the detailed version of the manual so you can use your instrument to its fullest potential. The complete manual can be downloaded from the Siemens website at: www.siemens.com/level. The printed manual is available from your local Siemens representative.

Questions about the contents of this manual can be directed to:

Siemens Milltronics Process Instruments Inc.
1954 Technology Drive, P.O. Box 4225
Peterborough, Ontario, Canada, K9J 7B1
Email: techpubs.smpi@siemens.com

Copyright Siemens Milltronics Process Instruments Inc. 2008. All Rights Reserved	Disclaimer of Liability
We encourage users to purchase authorized bound manuals, or to view electronic versions as designed and authored by Siemens Milltronics Process Instruments Inc. Siemens Milltronics Process Instruments Inc. will not be responsible for the contents of partial or whole reproductions of either bound or electronic versions.	While we have verified the contents of this manual for agreement with the instrumentation described, variations remain possible. Thus we cannot guarantee full agreement. The contents of this manual are regularly reviewed and corrections are included in subsequent editions. We welcome all suggestions for improvement. Technical data subject to change.

MILLTRONICS is a registered trademark of Siemens Milltronics Process Instruments Inc.

Safety Guidelines

Warning notices must be observed to ensure personal safety as well as that of others, and to protect the product and the connected equipment. These warning notices are accompanied by a clarification of the level of caution to be observed.

⚠ **WARNING: relates to a warning symbol on the product, and means that failure to observe the necessary precautions can result in death, serious injury, and/or considerable material damage.**

! **WARNING[1]: means that failure to observe the necessary precautions can result in death, serious injury, and/or considerable material damage.**

Note: means important information about the product or that part of the operating manual.

1. This warning symbol is used when there is no corresponding caution symbol on the product.

English

SITRANS Probe LU (PROFIBUS PA)

! WARNING: Changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate, radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving transducer.
- Increase the separation between the equipment and receiver.
- Connect the equipment to an outlet on a different circuit from the one to which the receiver is connected.
- Consult an experienced radio/TV technician for help.

Note: This product is intended for use in industrial areas. Operation of this equipment in a residential area may cause interference to several frequency based communications.

SITRANS Probe LU is a 2-wire loop-powered, continuous level monitor that uses advanced ultrasonic techniques. The instrument consists of an electronic component coupled to the transducer and process connection.

The transducer is available in ETFE (ethylene-tetrafluoroethylene) or PVDF (polyvinylidene fluoride), allowing SITRANS Probe LU to be used in a wide variety of industries and applications using corrosive chemicals.

The ultrasonic transducer contains a temperature-sensing element to compensate for temperature changes in the application.

Communication is via PROFIBUS PA. This device supports acyclic communications from both a PROFIBUS Class I and Class II master. Signals are processed using Sonic Intelligence® which has been field-proven in over 500,000 applications worldwide (ultrasonic and radar).

SITRANS Probe LU is available in three versions:

- General Purpose (non-hazardous)
- Intrinsically Safe (with suitable barrier)
- Non-Incendive (FM Class I, Div. 2)

Specifications

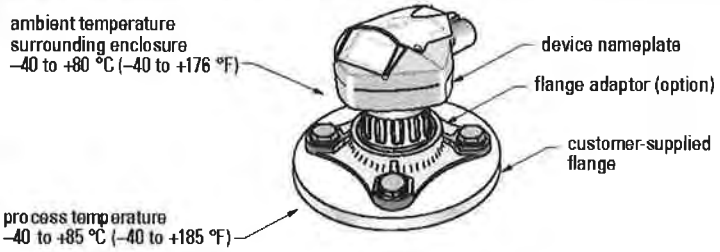
For a complete listing, see the SITRANS Probe LU (PROFIBUS PA) Instruction Manual. For Approvals information, please refer to the device nameplate[1].

1. The device nameplate is shown on the inside front cover of this manual.

English

Ambient/Operating Temperature

Note: Process temperature and pressure capabilities are dependent upon information on the device nameplate. The reference drawing listed on the nameplate can be downloaded from the Siemens website. Go to the SITRANS Probe LU product page at: http://pia.khe.siemens.com/index.asp?Nr=11157.



Power

- Bus powered — On PROFIBUS PA, as per IEC 61158-2
- Current consumed — 12 mA (default value)[1]

Performance

- Update time with 12 mA loop current[1] — 6.0 s (typical), maximum 16.0 s[2]

Approvals

- General — $CSA_{US/C}$, FM, CE
- Hazardous

Intrinsically Safe	(Europe)	ATEX II 1 G EEx ia IIC T4	
	(US/Canada)	FM[3] (pending) /CSA[3]: barrier required Class I, Div. 1, Groups A, B, C, D Class II, Div. 1, Groups E, F, G Class III	T4
Non-incendive	(US)	FM[4] (pending): Class I, Div. 2, Groups A, B, C, D	T5

Note: The use of approved watertight conduit hubs/glands is required for Type 4X/ NEMA 4X, Type 6/NEMA 6, IP67, IP68 (outdoor application).

1. For 13, 15, or 20 mA options, see *PROFIBUS Current Consumption* on page 13.
2. Temperature dependent: typical value at +20 °C (+68 °F); max. value at +80 °C (+176 °F).
3. See *FM/CSA Intrinsically Safe Connection Drawing* on page 1 of Appendix A, for drawing number 23650617.
4. See *FM: Class I, Div. 2 Connection Drawing* on page 5 of Appendix A, for drawing number 23650583.

English

Installation

! WARNINGS:

- **Installation shall only be performed by qualified personnel and in accordance with local governing regulations.**
- **SITRANS Probe LU is to be used only in the manner outlined in this manual, otherwise protection provided by the equipment may be impaired.**

Note: Please refer to the device nameplate for approval information.

Mounting location

Recommendations

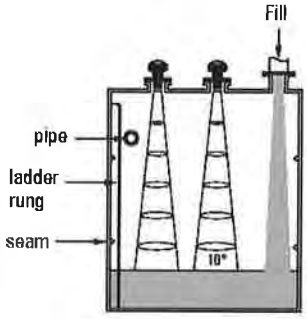
- Ambient temperature should be within –40 to +80 °C (–40 to +176 °F).
- Provide easy access for viewing the display and programming via the handheld programmer.
- Provide an environment suitable to the housing rating and materials of construction.
- Keep the sound path perpendicular to the material surface.

Precautions

- Avoid proximity to high voltage or current wiring, high voltage or current contacts, and to variable frequency motor speed controllers.
- Avoid interference to the sound path from obstructions or from the fill path.

The sound path should be:

- perpendicular to the monitored surface
- clear of rough walls, seams, rungs, or other obstructions
- clear of the fill path



English

Mounting instructions

Note: Ideally, mount SITRANS Probe LU so that the face of the transducer is at least 300 mm (1 ft) above the highest anticipated level.

SITRANS Probe LU is available in three thread types: 2" NPT, 2" BSP, or PF2/G (BS EN ISO 228-1).

1. Before inserting SITRANS Probe LU into its mounting connection, ensure that the threads are of the same type to avoid damaging them.
2. Simply screw SITRANS Probe LU into the process connection and hand tighten.

Wiring

Power

WARNINGS:

⚠ **DC terminals shall be supplied from an SELV[1] source in accordance with IEC-1010-1 Annex H.**

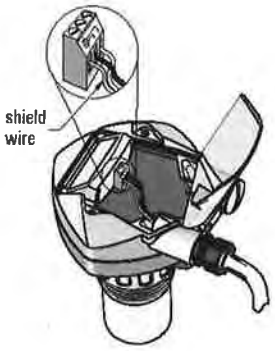
! **All field wiring must have insulation suitable for rated voltages.**

Connecting SITRANS Probe LU (PROFIBUS PA)

Note:

- For detailed wiring instructions, please see the full manual.
- For Intrinsically Safe setups (FM/CSA Class I, Div. 1), see *FM/CSA Intrinsically Safe Connection Drawing* on page 1 of Appendix A, for drawing number 23650617.
- For Non-Incendive setups (FM: Class I, Div. 2), see *FM: Class I, Div. 2 Connection Drawing* on page 5 of Appendix A, for drawing number 23650583.
- The non-metallic enclosure does not provide a continuous ground path between conduit connections: use grounding-type bushings and jumpers.
- Separate cables and conduits may be required to conform to standard instrumentation wiring practices, or electrical codes.

1. Strip the cable jacket for approximately 70 mm (2.75") from the end of the PROFIBUS PA cable, and thread the wires through the gland[2].
2. Connect the wires to the terminal as shown: Probe LU (PROFIBUS PA) is not polarity-sensitive.



1. Safety Extra Low Voltage
2. If cable is routed through conduit, use only approved suitable-size hubs for waterproof applications.

English

3. Ground the instrument according to local regulations
   - For Intrinsically Safe applications, connect the cable shield to the instrument shield connection[1], and ground the shield connection to an external ground that is connected to an equal-potential grounding grid. For more detail on Explosion Protection, you can download the brochure *Siemens Process Automation Explosion Protection* (part number A5E00265440) from www.siemens.com/level, under Brochures/General.
   - For General Purpose applications, ground the shield at one point only (usually the power supply side) and continue the shield from device to device, connecting it to the shield connection in each Probe LU.
4. Tighten the gland to form a good seal.
5. Close the cover and tighten screws: **please do not overtighten screws.** Recommended torque is 0.5 to 1.1 N-m (5 to 10 in-lb).

Note: PROFIBUS PA must be terminated at both extreme ends of the cable for it to work properly. Please refer to the *PROFIBUS PA User and Installation Guidelines* (order number 2.092), available from www.profibus.com.

Communications via PROFIBUS PA

Notes:

- The following instructions assume that the user is familiar with PROFIBUS PA.
- For a complete list of applicable parameters, please see the full manual.

Configuring the PROFIBUS PA master

To configure SITRANS Probe LU on the network, you will need the GSD file. You can download the files (**SIEM8124.gsd** for the 6 m Probe LU, or **SIEM8123.gsd** for the 12 m Probe LU) from our web site. Go to the SITRANS Probe LU product page at: https://pia.khe.siemens.com/index.asp?Nr=11157 and click **Downloads**.

Startup

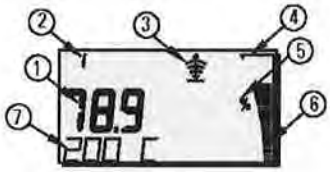
SITRANS Probe LU automatically starts up in **RUN** mode, and detects the material level. The LCD displays the material level referenced from the Low Level Point[2] (the output of Analog Input Function Block1/AIFB1). System status is displayed on the LCD, or on a remote communications terminal.

1. The instrument shield connection is internally connected to the external ground lug.
2. See *Quick Setup* on page 11 for an illustration.

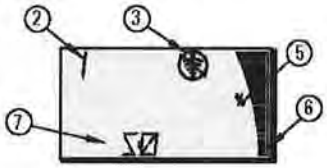
English

Startup Display (RUN mode)

Normal operation



Failsafe operation



1 – Primary region displays material level (Output of the active AIFB)

2 – Menu number (displays the number of the active AIFB: 1 or 2)

3 – Echo status indicator: Reliable Echo or Unreliable Echo

(The Unreliable Echo border flashes if Loss of Echo (LOE) is pending[1]. When LOE becomes active, the border is solid and the secondary region displays **S :0.**)

4 – Bar graph border (always visible in RUN mode)

5 – Units or Percent

6 – Active bar graph represents material level

(The lowest bar flashes once per second as a heartbeat.)

7 – Secondary region displays one of the following:

- Internal electronics temperature
- Value representing echo confidence
- Distance (Secondary Value 2)
- General status information, or a fault code (see the full manual for a list of fault codes and their meanings)

Programming SITRANS Probe LU (PROFIBUS PA)

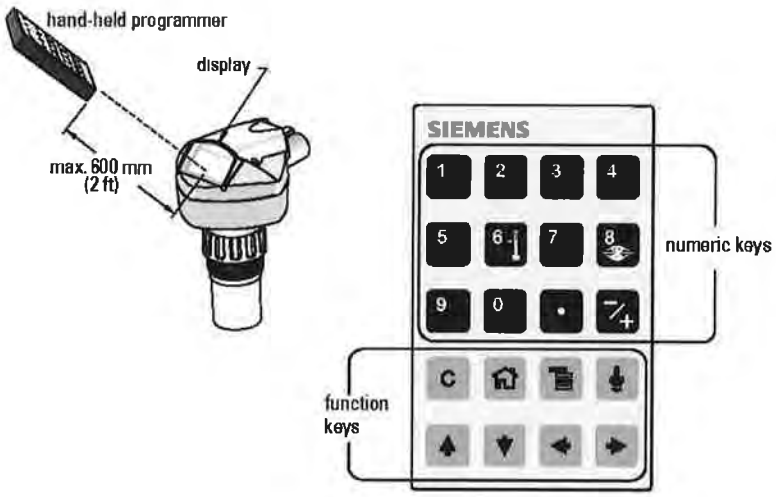
The parameters that control the operation of the Probe LU (PROFIBUS PA) are organized into function groups, and arranged in a 4-level menu structure that can be accessed either via the handheld programmer, or via PDM and PROFIBUS PA. (For charts showing the complete menu structure, refer to the full manual.)

1. For more details on Loss of Echo, refer to the full manual.

English

The handheld programmer[1]

To activate PROGRAM mode, point the handheld programmer at the display from a maximum distance of 600 mm (2 ft), and press the Mode key.

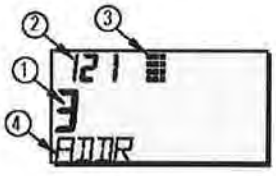


Within Program Mode, the handheld programmer has two modes of operation: Navigation and Edit.

- Press the Mode key to switch from RUN to PROGRAM and enter Navigation Mode: the rightmost digit of the menu number flashes and the PROGRAM icon is not visible.
- Press Right arrow a second time to change the mode from Navigation to Edit.
- In Edit mode, the PROGRAM icon appears and flashes.

PROGRAM Mode Display

Note: SITRANS Probe LU (PROFIBUS PA) continues to monitor In and Out values even when the device is in PROGRAM mode.



1 – Primary region (displays parameter value)
2 – Menu number region (displays Menu number)
3 – PROGRAM mode icon
4 – Secondary region (displays text label)

1. For complete instructions on local programming using the handheld programmer, please see the full manual.

English

When you activate PROGRAM mode for the first time in any power cycle, the LCD displays the first menu. If, during the same power cycle, you switch to RUN mode, and then back to PROGRAM mode, the LCD will display the menu or item that was last accessed in PROGRAM mode.

Security

Local operation enable

Local Operation can be enabled or disabled via PDM. Go to **Identification > Device > Local Operation Enable** and select the desired setting.

Write Locking

Write locking prevents any changes to parameters via PDM or via the handheld programmer, but still allows access to the device.

Via PDM, open the menu **Device – Write Locking**, and select **Off** or **On**.

Hand programmer values	2457 (unlock value)	Off	Enables parameter changes
	any other value	On	Disables parameter changes

Via the handheld programmer:

- Open **Identification** Menu, then scroll down to CONFIG.
- Press **Right ARROW** to open the Config Menu, then scroll down to LOCK.

  1. Identification

  1.3. Configuration

  1.3.5. Lock
- To enable programming, set LOCK to **2457**. To disable programming, enter any other value.

Remote operation enable

Remote Operation can be enabled or disabled via the handheld programmer.

Values	**0**	Off	Remote operation enabled.
	1	On	Remote operation disabled.

- Open **Identification** Menu, then scroll down to CONFIG.
- Press **Right ARROW** to open the Config Menu, then scroll down to REMLOCK.

  1. Identification

  1.2. Configuration

  1.2.2. Remote Lockout
- To enable programming, set REMLOCK to **0**. To disable programming, enter **1**.

Master Reset

In PDM, open the menu **Device – Master Reset**, to access the reset options, including Factory Reset.

English

Activating SITRANS Probe LU

Note: Keep infrared devices such as laptops, cell phones, and PDAs, away from SITRANS Probe LU (PROFIBUS PA) to prevent inadvertent operation.

Power up the instrument. SITRANS Probe LU (PROFIBUS PA) starts in **RUN** mode, and the LCD displays the output of AIFB1.

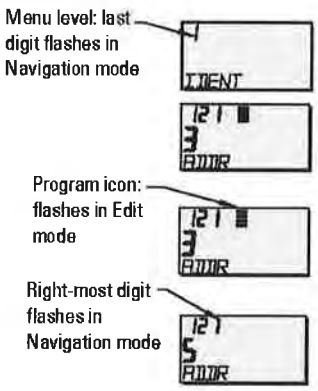
Network Address (default 126)

Verifying/changing the device address via the handheld programmer

Notes:

- Local programming must be enabled, to allow changes (see *Local operation enable* on page 9).
- **CLEAR** [C] can be used to clear the field.
- Press **Right ARROW** [→] to open Edit mode: the PROGRAM icon flashes.
- Press **Left ARROW** [←] to cancel Edit mode: the Menu number flashes (the PROGRAM icon is not visible).

1. Press **Mode** [M] to activate **PROGRAM** mode and open Menu level 1.
2. Press **Right ARROW** [→] twice to navigate to PROFIBUS Address.
3. Press **Right ARROW** [→] again to open Edit mode: the PROGRAM icon will flash.
4. Key in a new value and press **Right ARROW** [→] to accept it. (The LCD displays the new value, PROGRAM icon disappears, and the last menu digit flashes to indicate Navigation mode.)
5. Press Mode [M] to return to RUN mode.



Performing calibration via PROFIBUS PA

To use PROFIBUS PA, you will need a PC configuration tool: we recommend SIMATIC PDM. Please consult the operating instructions or online help for details on using SIMATIC PDM. (An Application Guide *SMPI PROFIBUS PA instruments and SIMATIC PDM* is available on our website at: https://pia.khe.siemens.com/index.asp?Nr=11157.)

English

Changing parameter settings

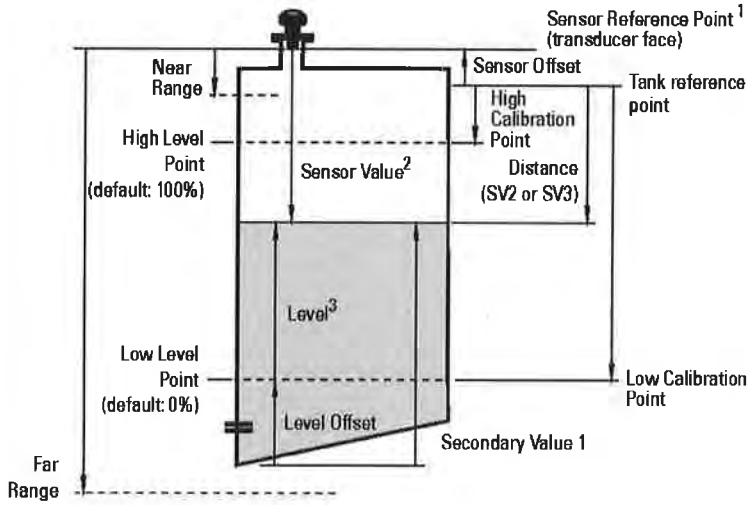
- First launch SIMATIC PDM, connect to SITRANS Probe LU (PROFIBUS PA), and upload data from the device.
- Adjust parameter values in the parameter view field (right side of screen).
- After adjusting the value, press **Enter** (the status fields read **Changed**).
- When you have completed the adjustments, open the **Device** menu, download data to the device, and save parameter settings offline (the status fields go blank).

Quick Setup

Only four settings are required for a Quick Setup:

- High Calibration Point and High Level Point
- Low Calibration Point and Low Level Point

Primary Variable (PV) will be level (SV1). SV1 (Secondary Value 1) is the sum of Level plus Level Offset (if any).



1. Sensor Reference Point: the point to which all of the above parameters are referenced.
2. Sensor Value: the value produced by the echo processing, which represents the distance from the Sensor Reference Point to the target.
3. Level Value: the level measured in level units.

English

Calibration

1. Open the menu **Device – Sensor Calibration** and select the tab **Dry Calibration.** (Click on **Additional Information** to see the schematic showing the PROFIBUS parameters.)
2. Enter the new value for Low Calibration Point (default units are meters).
3. Enter the corresponding value for Low Level Point in percent (default is 0).
4. Enter the new value for High Calibration Point (default units are meters).
5. Enter the corresponding value for High Level Point in percent (default is 100).
6. Click on **Transfer**.
7. SITRANS Probe LU is now ready to operate.

Auto False Echo Suppression

Enables a "learned" TVT curve to be used in place of the default TVT curve. Use this feature to ignore false echoes on the echo profile. Set Range (Auto False Echo Suppression Distance) first, then set Auto False Echo Suppression.

Range (Auto False Echo Suppression Distance)[1]: (default 1)

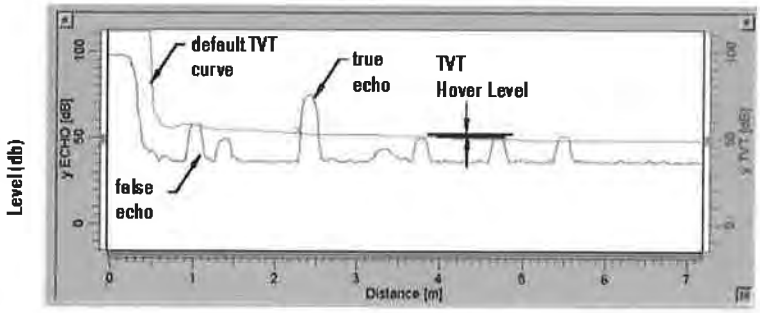
Defines the endpoint of the Learned TVT distance.

1. Rotate the instrument for best signal (lower false-echo amplitude).
2. Go to **Input > Detailed Setup > TVT setup > Distance**.
3. Determine the actual distance from the reference point (transducer face) to the material surface.
4. Subtract 0.5 m (20") from this distance, and enter the result.

Set Auto False Echo Suppression

1. Open the menu **Device – Auto False Echo Suppression** and select the option to change it.
2. Select **Learn**. The device will automatically revert to **On** (Use Learned TVT) after a few seconds.

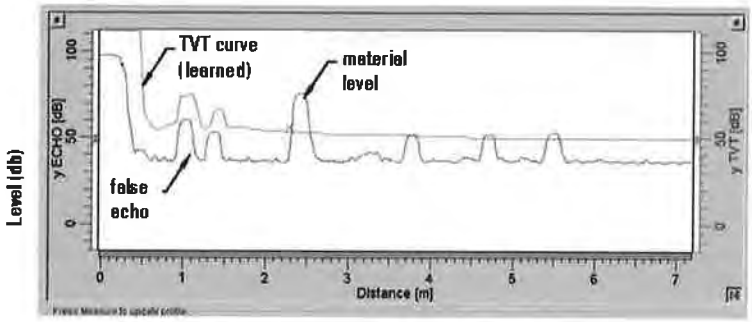
Display before Auto False Echo Suppression



[1] This parameter cannot be reset to the factory default.

English

Display after Auto False Echo Suppression



PROFIBUS Current Consumption

Warning: This parameter should be modified only once at installation, to match the design criteria of the network.

Allows you to select the PROFIBUS device current. Higher values allow faster update rates.

Values		Loop current	Update time[1]
0	*	12 mA	6.0 s (typical), maximum 16.0 s
1		13 mA	5.0 s (typical), maximum 14.0 s
2		15 mA	3.7 s (typical), maximum 8.0 s
3		20 mA	2.4 s (typical), maximum 4.0 s

Go to **Input > Standard Setup > PROFIBUS Current Consumption**, and enter the value corresponding to the desired device current.

Maintenance

SITRANS Probe LU requires no maintenance or cleaning.

Unit Repair and Excluded Liability

For detailed information, please see the inside back cover.

1. Temperature dependent: typical value at +20 °C (+68 °F); maximum value at +80 °C (+176 °F).

English

Instructions specific to hazardous area installations (Reference European ATEX Directive 94/9/EC, Annex II, 1/0/6)

The following instructions apply to equipment covered by certificate number SIRA 03ATEX2142X:

1. For use and assembly, refer to the main instructions.
2. The equipment is certified for use as Category 1G equipment.
3. The equipment may be used with flammable gases and vapors with apparatus group IIC and temperature class T4.
4. The equipment is certified for use in an ambient temperature range of –40 °C to 80 °C.
5. The equipment has not been assessed as a safety related device (as referred to by Directive 94/9/EC Annex II, clause 1.5).
6. Installation and inspection of this equipment shall be carried out by suitably trained personnel in accordance with the applicable code of practice (EN 60079-14 and EN 60079-17 in Europe).
7. Repair of this equipment shall be carried out by suitably trained personnel in accordance with the applicable code of practice (e.g. EN 60079-19 within Europe).
8. Components to be incorporated into or used as replacements in the equipment shall be fitted by suitably trained personnel in accordance with the manufacturer's documentation.
9. It is the responsibility of the user to ensure that manual override is possible in order to shut down the equipment and protective systems incorporated within automatic processes which deviate from the intended operating conditions, provided that this does not compromise safety.
10. The 'X' suffix to the certificate number relates to the following special conditions for safe use:
    a. Parts of the enclosure may be non-conducting and may generate an ignition-capable level of electrostatic charge under certain extreme conditions. The user should ensure that the equipment is not installed in a location where it may be subjected to external conditions (such as high-pressure steam) which might cause a build-up of electrostatic charge on non-conducting surfaces.
    b. As either Aluminum, Magnesium, Titanium or Zirconium may be used at the accessible surface of the equipment, in the event of rare incidents, ignition sources due to impact and friction sparks could occur. This shall be considered when the SITRANS Probe LU (PROFIBUS PA) is being installed in locations that specifically require group II, category 1G equipment.

English

11. The certification of this equipment relies upon the following materials used in its construction:

    Aluminum alloy ANSI ref. A380.0 (aluminum enclosure option)
    STYCAST[1] 2651-40FR encapsulant, catalyst II

    The detailed composition of Aluminum A380.0 as used in the metal enclosure (threaded lid option only) is as follows:

    Si – 8.5%, Fe – 1.3%, Cu – 3.5%, Mn – 0.5%, Mg – 0.1%, Ni – 0.1%, Zn – 3%, Sn – 0.35%, others – 0.5%, Al - balance

    If the equipment is likely to come into contact with aggressive substances, then it is the responsibility of the user to take suitable precautions that prevent it from being adversely affected, thus ensuring that the type of protection is not compromised.

    Aggressive substances: e.g. acidic liquids or gases that may attack metals, or solvents that may affect polymeric materials.
    Suitable precautions: e.g. regular checks as part of routine inspections or establishing from the material's data sheet that it is resistant to specific chemicals.

12. **Equipment Marking:**

    The equipment marking contains at least the information on the product label, shown on the inside front cover of this manual.

1. STYCAST® is a registered trademark of the National Starch and Chemical Company.

ATTACHMENT 25: SPILL PREVENTION CONTROL AND COUNTERMEASURE PLAN FOR THE LOG-HERG REFUELING TRUCKS

SPCC-PLN-60-03	Revision: **0**	Los Alamos NATIONAL LABORATORY EST.1943
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:	Organization:	Signature:	Date:
William Foley	EPC-CP	WILLIAM FOLEY (Affiliate) Digitally signed by WILLIAM FOLEY (Affiliate) Date: 2020.10.13 17:05:41 -06'00'	10-13-20

Derivative Classifier: ☒ **Unclassified or** ☐ _____

Name:	Organization:	Signature:	Date:
Steve Wolfel	EPC-CP		10/19/20

Approval Signatures:

EPC-CP Reviewer: Jacob Knight	Organization: EPC-CP	Signature: JACOB KNIGHT (Affiliate) Digitally signed by JACOB KNIGHT (Affiliate) Date: 2020.10.15 10:24:42 -06'00'	Date: 10-15-20
EPC-CP Program Lead: Steve Pearson	Organization: EPC-CP	Signature: STEVEN PEARSON (Affiliate) Digitally signed by STEVEN PEARSON (Affiliate) Date: 2020.10.16 11:55:01 -06'00'	Date: 10-15-20

This copy is uncontrolled.
Users are responsible for ensuring they work to the latest approved version.
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

		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

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: _____ Date: 10/13/20

William Joseph Foley
Registered Professional Engineer
New Mexico License No. 12703

10/13/20

[BLANK PAGE]

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

REVISION HISTORY

Document Number and Revision *[Include revision number, beginning with Revision 0]*	**Effective Date** *[Document Control Coordinator inserts effective date]*	**Professional Engineer Certification Required**	**Description of Changes** *[List specific changes made since the previous revision]*
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

Table of Contents

Revision History 7
1.0 INTRODUCTION 10
1.1 Conformance 10
1.2 Scope 12
1.3 Plan Amendment 13
2.0 FACILITY INFORMATION 14
2.1 Name, Address, Owner, Contacts 14
2.2 Site Assessment/Location 14
2.3 Description 15
2.3.1 Tanks 15
2.3.2 Refuelers and Oil Transfer Equipment/Operations 25
2.3.2.1 Refuelers 25
2.3.2.2 Oil Transfer Equipment/Operations 28
2.3.3 Secondary Containment Drainage Options 32
3.0 SPILL HISTORY 33
4.0 POTENTIAL SPILL VOLUMES AND RATES 33
4.1 Potential Event, Volume Release, Rate of Release 34
4.2 Potential Spill Discharge Flow and Nearest Watercourse 35
5.0 SPILL PREVENTION AND CONTROL 35
5.1 Spill Prevention Features and Practices 35
5.2 Oil Spill Contingency Plan 37
5.3 Security 37
6.0 INSPECTIONS 38
7.0 RECORDKEEPING 38
8.0 MAINTENANCE INSPECTIONS 39
9.0 TRAINING 40
10.0 DEFINITIONS AND ACRONYMS 41
10.1 Definitions 41
10.2 Acronyms 42
11.0 REFERENCES 43
12.0 APPENDICES 43
Appendix A: Certification of the Applicability of the Substantial Harm Criteria 44
Appendix B: Amendment Log 46
Appendix C: Site Map and Photograph of Typical Stationary Equipment 48
Appendix D: Inspection Forms, Inspection Records, and Corrective Action Records 53
Appendix E: Spill Tracking History, Log, Notifications, and Spill Reports 60
Appendix F: Storm Water Discharge Forms 70
Appendix G: Training Records 72
Appendix H: PetroBarriers ™ Specification Sheet 74

List of Tables

Table 1. SPCC Responsibilities 12
Table 2. Stationary Facilities At LANL With Possible Fuel Transfer Operations Covered Under a Separate SPCC Plan 29
Table 3. Stationary Facilities At LANL With Possible Fuel Transfer Operations Covered Under This SPCC Plan 31
Table 4. On-Call Refueling Locations At LANL 32
Table 5. Potential for Spills at TA-60-1 HES and Refueling Trucks 34
Table 6. Potential Spill Discharge Flow and Nearest Watercourse 35
Table 7. Definition of authorities, responsibilities, and duties of all entities involved in oil removal operations 36
Table 8. Spill Contact Information 37
Table 9. Inspection Summary 38
Table 10. Record Location within SPCC Plan 38

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:

- 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% overfill prevention valve. The facility should determine the current level of fuel in the tank and request the specific amount to be delivered to not overfill 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

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).

Table 1. SPCC Responsibilities

Topic Area	*Specific Item*	*Responsible Entity*	
		EPC-CP	*LOG*
General	*Prepare SPCC to meet regulatory requirements*	*X*	*X*
	Approve SPCC	*X*	
	Implement SPCC		*X*
	Approve physical changes needed to implement SPCC	*X*	
	Provide oversight	*X*	
	Leak and spill cleanup and disposal, provide spill information to EPC-CP, update spill log in Plan		*X*
	Spill reporting to state and federal regulators	*X*	*X*
Inspections	*Provide qualified personnel to perform and write monthly SPCC walk around inspections*		*X*
	Ensure annual physical inspections of tanks are performed.		*X*
	Provide qualified personnel to perform and write annual SPCC inspections	*X*	
	Implement corrective actions noted in inspections		*X*
Recordkeeping	*Maintain inspections in onsite SPCC*		*X*
	Maintain onsite training records for periodic briefings or Lessons Learned		*X*
	Update spill tracking form		*X*
	Track discharges/spills (planned and unplanned)	*X*	*X*

Table 1. SPCC Responsibilities			
Topic Area	*Specific Item*	*Responsible Entity*	
		EPC-CP	*LOG*
	Review SPCC every five years	*X*	*X*
Training	*Provide annual training that meets SPCC regulatory requirements*	*X*	
	Provide site-specific SPCC Training (Facility Owner/Operator)		*X*
	Ensure all oil handling personnel and designated persons accountable for discharge prevention attend annual training	*X*	*X*
Plan Amendment	*Provide information on changes to design, construction, operation or maintenance*		*X*
	Amend Plan when spill or other change in facility occurs		*X*
	Approve physical changes needed and plan amendments to SPCC, if engineer certification is required	*X*	
	Implement changes to plan within 6 months of change to facility		*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.

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

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.

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

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-galllon, 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

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

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

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™

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.

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

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.

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-16 WETF Generator	described in facility SPCC Plan	• Temporary berms • Spill kit • Absorbent pads under nozzle
TA-50 Artic Generator	described in facility SPCC Plan	• 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	• 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	• 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	• Spill kit • Absorbent pads under nozzle • Attended by two personnel
TA-3 SAS	described in facility SPCC Plan	• Spill kit • Absorbent pads under nozzle • Attended by two personnel
TA-48-270 Generator	described in facility SPCC Plan	• Spill kit • Absorbent pads under nozzle • Attended by two personnel
TA-48-271 Generator	described in facility SPCC Plan	• Spill kit • Absorbent pads under nozzle • Attended by two personnel
TA-55 PF8 Generator	described in facility SPCC Plan	• Spill kit • Absorbent pads under nozzle • Attended by two personnel
TA-55-362 CAS	described in facility SPCC Plan	• Spill kit • Absorbent pads under nozzle • Attended by two personnel
TA-55-364 Facility Emergency Generator	described in facility SPCC Plan	• Spill kit • Absorbent pads under nozzle • Attended by two personnel
TA-55 Facility Tanks in Sumps	described in facility SPCC Plan	• Spill kit • Absorbent pads under nozzle • Attended by two personnel
TA-55-551 Utility Building	described in facility SPCC Plan	• Spill kit • Absorbent pads under nozzle • Attended by two personnel
TA-55-583, 584, 585 RLUOB Generators	described in facility SPCC Plan	• Spill kit • Absorbent pads under nozzle • Attended by two personnel
TA-55 Vehicle Refueling	described in facility SPCC Plan	• 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	• Spill kit • Absorbent pads under nozzle • Attended by two personnel
TA-53 "Orange Box" Vehicle Fueling	described in this SPCC Plan	• 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	• Attended by two people • Spill kit • Absorbent pads under nozzle
TA-3-1498 LDCC generator	• Attended by two people • Spill kit • Absorbent pads under nozzle
TA-35-88 generator	• Attended by two people • Spill kit • Absorbent pads under nozzle
TA-35-27 generator	• Attended by two people • Spill kit • Absorbent pads under nozzle
TA-3-40 generator	• Attended by two people • Spill kit • Absorbent pads under nozzle
TA-16-218 generator	• Attended by two people • Spill kit • Absorbent pads under nozzle
43-1 generator	• Attended by two people • Spill kit • Absorbent pads under nozzle
59-1 generator	• Attended by two people • Spill kit • Absorbent pads under nozzle
64-1 generator	• Attended by two people • Spill kit • Absorbent pads under nozzle
73-1 generator	• Attended by two people • Spill kit • Absorbent pads under nozzle

TA-33 portable generators	• 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	• Attended by two people • Spill kit
PTLA vehicle fueling TA-64	• Attended by two people • Spill kit
Utilities and Infrastructure Vehicles (TA-3-223, TA-46 SWSC)	• Attended by two people • Spill kit
TA-16 HE area	• 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)	• Spill kit
TA-60-250 Roads and Grounds	• Attended by two people • Spill kit
Unplanned locations: Emergency operations, remote well sites, etc.	• 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.

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 contaminates 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

Table 5. Potential for Spills at TA-60-1 HES and Refueling Trucks

Location	Volume Release (gallons)	Type of failure (discharge scenario)	Secondary containment/method/capacity and response measures
Poly-storage containment unit	55 gallons	Catastrophic	• 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	• 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	• 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	• 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	• 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	• 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	• PetroBarrier™ protected storm drain in truck storage area.
Product Transfer Areas	5 gallons	Spill	• 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	**Contact** EMD-ER at 667-2400 (non-emergencies) or 911 (emergencies), 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 exits, 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.

Table 9. Inspection Summary

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

Table 10. Record Location within SPCC Plan

Record Type	Location in SPCC Plan

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.

Annual Inspections: EPC-CP staff performs annual SPCC inspections to access 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.

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/aldeshqss/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,

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

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

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	Logistics Division Leader
Name (please type or print)	Title
Signature	Date

This Page Intentionally Left Blank

Appendix B: Amendment Log

SPILL PREVENTION CONTROL AND COUNTERMEASURE

PLAN REVIEW PAGE

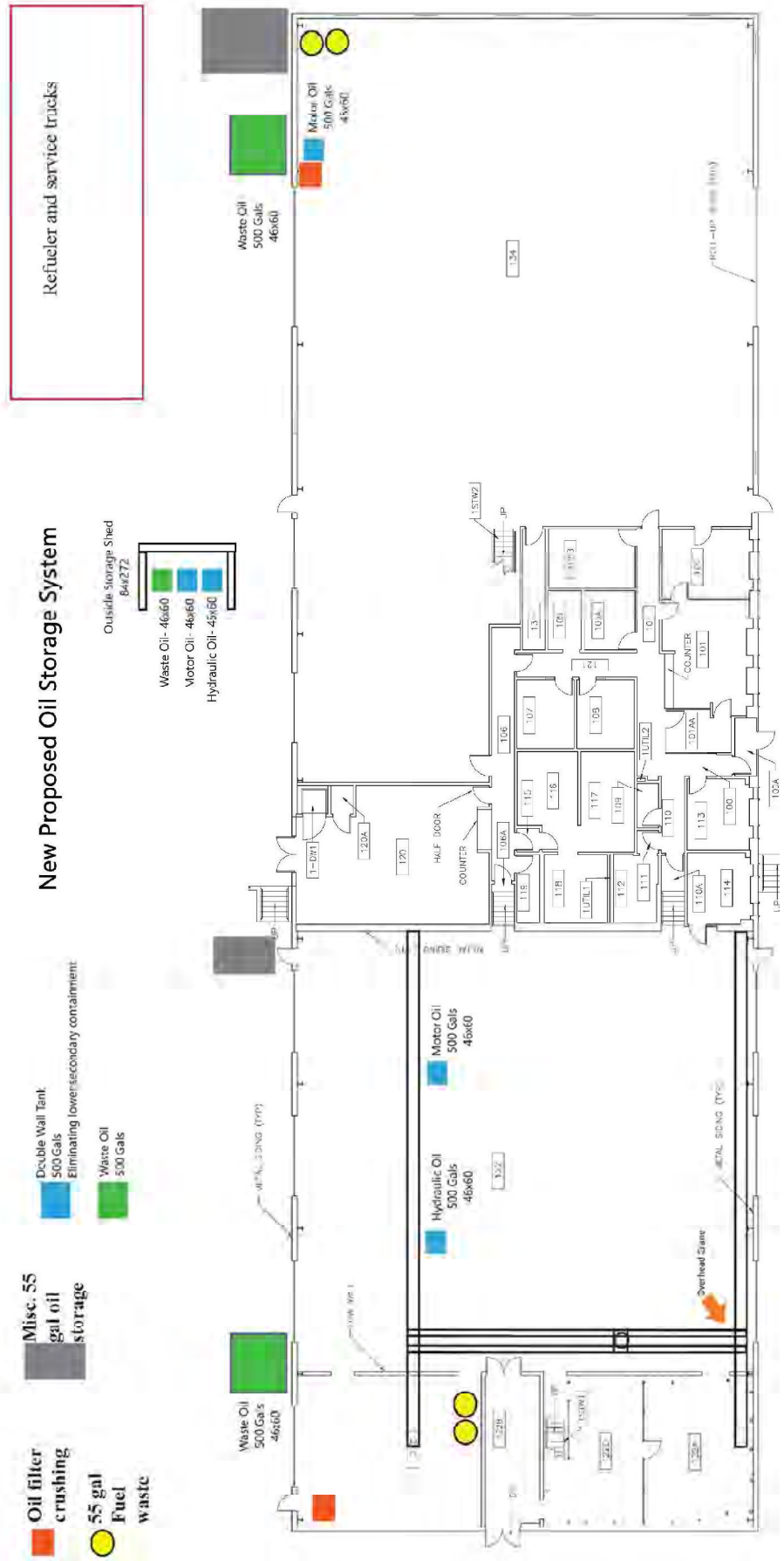
I have completed review and evaluation of the SPCC Plan and will or will not amend the plan as indicated below.

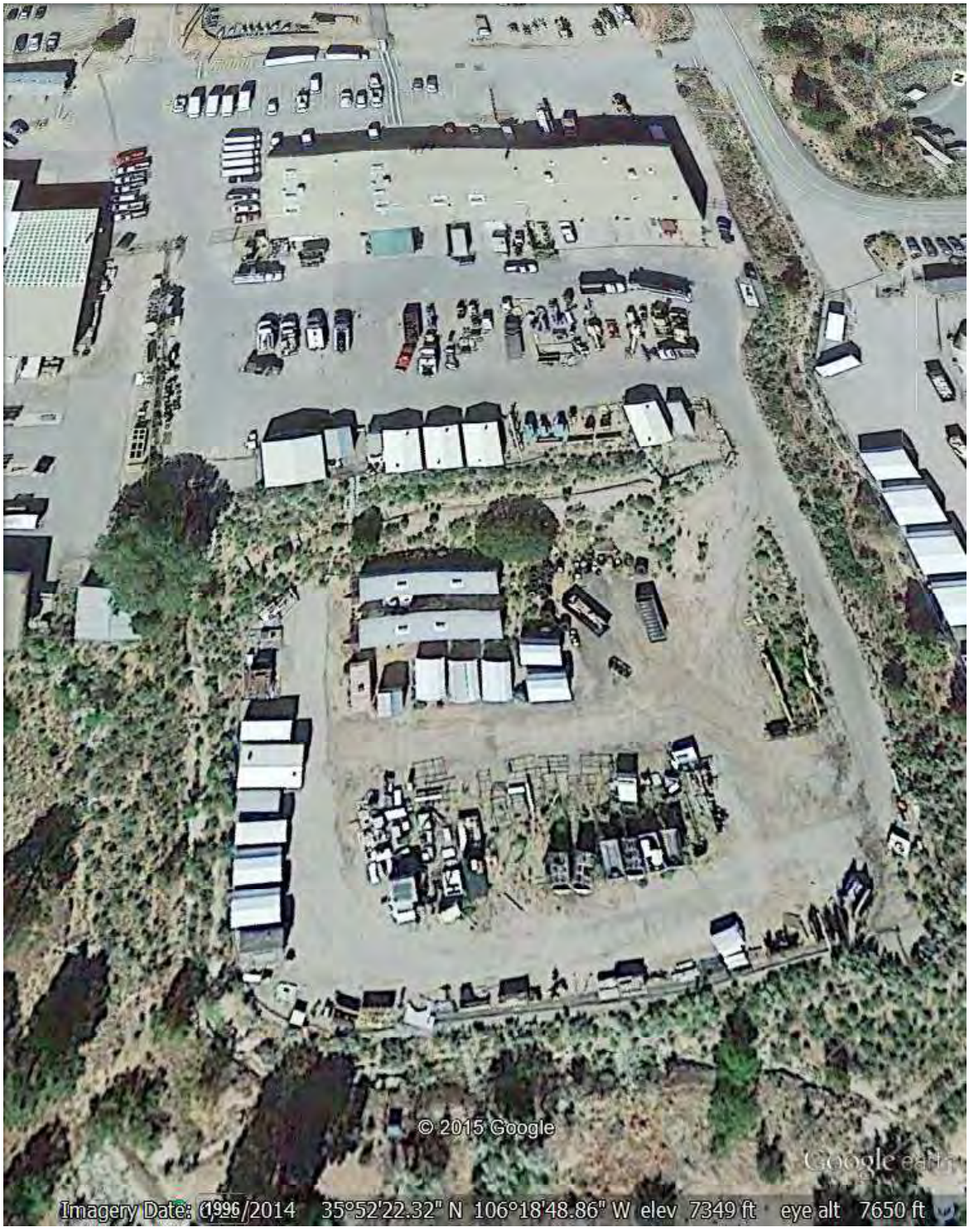
Review Dates	Signature	Name	Title	Amendment & Stamped (yes/no)
March 2010	(See File)	Terrill Lemke	Registered Professional Year	Yes & Yes
April 2015	(See File)	Albert Dye	SPCC Coordinator, ENV-CP	Yes & Yes
September 2020		Steve Pearson	SPCC Coordinator, ENV-CP	Yes & Yes

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.

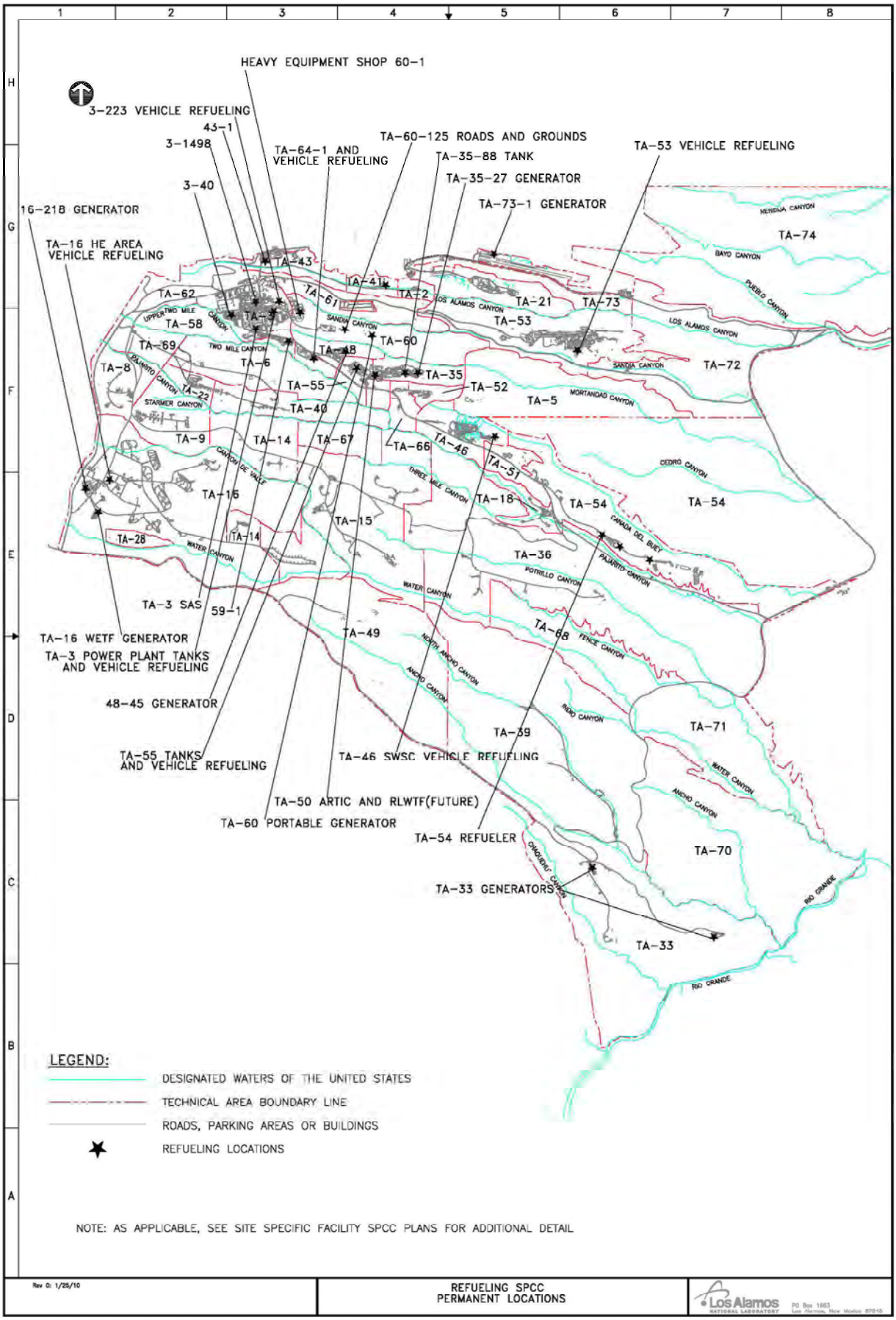
Date	Plan Section	Reason for Amendment	Amendment	PE Certification needed?
March 2010	All	Initial Issuance		Yes
April 2015	All	5-Year Review	Update of SPCC Plan for changes to covered vehicles, fueling locations, storage site BMPs, and organizational changes	Yes
May 2017	All	Additional oil storage at 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

Appendix C: Site Map and Photograph of Typical Stationary Equipment


Refueler and service trucks
New Proposed Oil Storage System
Outside Storage Shed 84x272
Waste Oil- 46x60
Motor Oil- 46x60
Hydraulic Oil- 45x60
Waste Oil 500 Gals 46x60
Motor Oil 500 Gals 46x60
Hydraulic Oil 500 Gals 46x60
Waste Oil 500 Gals 46x60
Motor Oil 500 Gals 46x60
Double Wall Tank 500 Gals Eliminating lower secondary containment
Waste Oil 500 Gals
Misc. 55 gal oil storage
Oil filter crushing
55 gal Fuel waste
Overhead Crane
COUNTER
HALF DOOR
METAL SIDING (TYP)



TA-60-1 HES & Refueling Truck Parking Area


HEAVY EQUIPMENT SHOP 60-1
3-223 VEHICLE REFUELING
43-1
3-1498
3-40
16-218 GENERATOR
TA-16 HE AREA VEHICLE REFUELING
TA-64-1 AND VEHICLE REFUELING
TA-60-125 ROADS AND GROUNDS
TA-35-88 TANK
TA-35-27 GENERATOR
TA-73-1 GENERATOR
TA-53 VEHICLE REFUELING
TA-74
TA-72
TA-71
TA-70
TA-54
TA-33
TA-43
TA-41
TA-2
TA-21
TA-73
TA-62
TA-61
TA-3
TA-58
TA-60
TA-69
TA-48
TA-6
TA-8
TA-35
TA-52
TA-53
TA-55
TA-22
TA-40
TA-5
TA-9
TA-14
TA-67
TA-66
TA-46
TA-51
TA-16
TA-18
TA-15
TA-28
TA-36
TA-3 SAS
59-1
TA-16 WETF GENERATOR
TA-3 POWER PLANT TANKS AND VEHICLE REFUELING
TA-49
TA-68
48-45 GENERATOR
TA-39
TA-55 TANKS AND VEHICLE REFUELING
TA-46 SWSC VEHICLE REFUELING
TA-50 ARTIC AND RLWTF(FUTURE)
TA-60 PORTABLE GENERATOR
TA-54 REFUELER
TA-33 GENERATORS
MENDNA CANYON
BAYO CANYON
PUEBLO CANYON
LOS ALAMOS CANYON
SANDIA CANYON
MORTANDAD CANYON
CEDRO CANYON
THREE MILE CANYON
CANADA DEL BUEY
PAJARITO CANYON
POTRILLO CANYON
WATER CANYON
FENCE CANYON
NORTH ANCHO CANYON
ANCHO CANYON
INDIO CANYON
CHAQUEHUI CANYON
RIO GRANDE
LEGEND:
DESIGNATED WATERS OF THE UNITED STATES
TECHNICAL AREA BOUNDARY LINE
ROADS, PARKING AREAS OR BUILDINGS
REFUELING LOCATIONS
NOTE: AS APPLICABLE, SEE SITE SPECIFIC FACILITY SPCC PLANS FOR ADDITIONAL DETAIL
Rev 0: 1/25/10
REFUELING SPCC PERMANENT LOCATIONS
Los Alamos NATIONAL LABORATORY

Typical Emergency Generator where refueling operations take place (TA-48-1)

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

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		

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.)		

Items Requiring Corrective Actions:_____

_____

Corrective actions taken (give dates):_____

_____

Other Comments:_____

_____

Inspector's signature: _____ Date:_____

Owner/Operator signature: _____ Date:_____

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:

_____ _____

Fueler's Signature Date:

Appendix E: Spill Tracking History, Log, Notifications, and Spill Reports

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.

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.

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.

This Page Intentionally Left Blank

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

This Page Intentionally Left Blank

TA-60-1 HEAVY EQUIPMENT SHOP / LOG REFUELERS – SPILL NOTIFICATIONS

National Response Center

The National Response Center or NRC is the federal government's national communications center, which is staffed 24 hours a day by U.S. Coast Guard officers and marine science technicians. The NRC receives all reports of releases involving hazardous substances and oil that trigger the federal notification requirements under several laws. Reports to the NRC activate the National Contingency Plan and the federal government's response capabilities. It is the responsibility of the NRC staff to notify the pre-designated on-scene coordinator (OSC) assigned to the area of the incident and to collect available information on the size and nature of the release, the Facility or vessel involved, and the party (ies) responsible for the release. The NRC maintains reports of all releases and spills in a national database.

How to Report Oil Spills

Reporting a hazardous substance release or oil spill takes only a few minutes. To report a release or spill, contact the federal government's centralized reporting center, the National Response Center (NRC), at 1-800-424-8802. The NRC is staffed 24 hours a day by U.S. Coast Guard personnel, who will ask you to provide as much information about the incident as possible. If possible, you should be ready to report the following:
Your name, location, organization, and telephone number
Name and address of the party responsible for the incident
Date and time of the incident
Location of the incident
Source and cause of the release or spill
Types of material(s) released or spilled
Quantity of materials released or spilled
Danger or threat posed by the release or spill
Number and types of injuries (if any)
Weather conditions at the incident location

Any other information that may help emergency personnel responds to the incident
If reporting directly to the NRC is not possible, reports also can be made to the EPA Regional office or the U.S. Coast Guard Marine Safety Office in the area where the incident occurred. In general, EPA should be contacted if the incident involves a release to inland areas or inland waters, and the U.S. Coast Guard should be contacted for releases to coastal waters, the Great Lakes, ports and harbors, or the Mississippi River. The EPA or U.S. Coast Guard will relay release and spill reports to the NRC promptly.

How Reports Are Handled

All reports of hazardous substance releases and oil spills made to the federal government are maintained by the NRC. The NRC records and maintains all reports in a computer database called the Emergency Response Notification System, which is available to the public. The NRC relays the release information to an EPA or U.S. Coast Guard On Scene Coordinator (OSC), depending on the location of the incident. In every area of the country, OSCs are on-call and ready to respond to an oil or hazardous substance release at any time of the day. After receiving a report of an oil or hazardous substance release, the federal OSC evaluates the situation and, if the OSC decides that a federal emergency response action is necessary, the National Response System will be activated. Otherwise, the OSC will monitor the cleanup activities of the responsible party and the local and state governments, and will assist in the cleanup as warranted.

EPA Region 6
Emergency Response Center 1-866-EPASPILL 1-866-372-7745

State of New Mexico
New Mexico State Police 505-476-9620
New Mexico Environment Department 505-827-9126

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.

TA-60-1 HEAVY EQUIPMENT SHOP / LOG REFUELERS – SPILL REPORTS

Appendix F: Storm Water Discharge Forms

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: PHONE#:

COMMENTS:

_____

Signature: _____

Date: _____

Appendix G: Training Records

This Page Intentionally Left Blank

Appendix H: PetroBarriers ™ Specification Sheet

SPI STORM DRAIN PETRO-BARRIER BOX™ USED FOR OIL CONTAINMENT

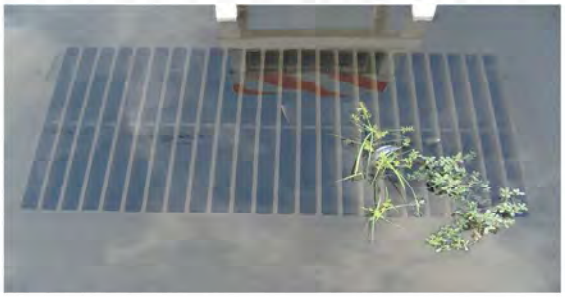
SPI Storm Water Petro-Barrier-Boxes are custom manufactured for any size storm drain for a variety of applications. SPI customers that have used our technology solutions for years for oil spill containment saw the need to expand the use of our technology for storm water drains. Every Petro-Barrier-Box 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.