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Title:MSGP Stormwater Pollution Prevention Plan for: TA-03-38 Metal<br/>Fabrication Shops

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# **MSGP Stormwater Pollution Prevention Plan**

for:

# TA-03-38 Metal Fabrication Shops

Triad National Security, LLC (Triad) Los Alamos National Laboratory

# January 2022

**Revision 3** 

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# TA-03-38 Metal Fabrication Shops 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 AA-Fabricated Metal Products* as a guide. The applicable stormwater discharge permit is EPA General Permit Tracing Number NMR050013 [Triad National Security, LLC (Triad)]. Click here to view contents of the <u>2021 Multi-Sector General Permit</u>.

This SWPPP applies to discharges of stormwater from the operational areas of the TA-03-38 Metal Fabrication Shop (MFS) and Pipe Fitter's Shop (PFS) (collectively known as the TA-03-38 Shops) and associated Metals Fabrication Shop Satellite Storage Area (MFSSSA) 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-03-38 Shops. The current MSGP expires at midnight on February 28, 2026.

# 1.0 FACILITY DESCRIPTION

#### 1.1 Facility Information

Name of Facility: TA-03-38 Metal Fabrication Shops							
Street: Southeast side of the intersection of West Jemez Rd. and Bikini Atoll Rd. The MFSSSA is located down Eniwetok Road east about one and a half miles on the north side.							
City: Los Alamos	State: NM	ZIP Code: 87545					
County: Los Alamos							
NPDES ID (i.e., permit tracking number): NMR050013 N	1SGP 2021						
Primary Industrial Activity SIC code, and Sector and Subs CS: MFS: SIC 3499, Sector AA, Subsector AA1; PFS: SIC 34							
Estimated area of industrial activity at site exposed to st	cormwater: 2.19 ac	res					
Discharge Information							
Name(s) of surface water(s)/segment that receives storr (Sigma Canyon to NPDES outfall 001)	mwater from your f	acility: Sandia Canyon					
Does this facility discharge industrial stormwater directly into any segment of an "impaired water" (see definition in 2021 MSGP, Appendix A)?							
Pollutants causing the impairment: Total Recoverable A	luminum, PCB (Aroclo	ors), and Dissolved Copper					
Pollutants causing the impairment (see above) that may discharges from this Facility: Total Recoverable Aluminu	•						
Are any of your stormwater discharges subject to efflue Table 1-1)? □Yes ⊠No If Yes, which guidelines apply? Not applicable.	nt limitation guideli	nes (ELGs) (2021 MSGP					

# **1.2** Stormwater Pollution Prevention Team (PPT)

The Stormwater PPT for the TA-03-38 Shops consists of operations and management personnel from the Institutional Facilities (IF) Facility Operations Division (FOD), operations and management personnel from the Logistics Division (LOG-DIV), the shops, a representative from Environmental Protection and Compliance-Compliance Programs (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 based on their familiarity with the activities at the facility and the potential impacts of those activities on stormwater runoff.

Specific duties of individual team members within the PPT are listed in the table below.

Staff Positions	Individual Responsibilities

Deployed Environmental Professionals (Primary and Backup): EPC-CP, Environmental Professional	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 facility 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 and that they understand immediate action is required to correct the non-compliance.
FOD Manager/Representative: Maintenance Manager, Logistics-Central Shops (LOG-CS)	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 IF FOD propose a new process, new site or operation that may be subject to the MSGP. This Manager/Representative is key to ensuring adequate communication and coordination of issues regarding implementation of the MSGP and this Plan.
<b>EPC-CP Core:</b> MSGP Program Lead, Environmental Professional	The MSGP Program Lead is responsible for managing and administering the MSGP Program for all industrial facilities operated by Triad within LANL. The MSGP Program Lead advises and provides guidance to facility or operations personnel on NPDES MSGP regulations/requirements. The MSGP 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):	Responsible for day-to-day operations at the facility. Assists the DEPs
LOG-DIV	and EPC with inspections; spill reporting; implementing, installing and
LOG-CS, Pipe Fitter's Shop (PFS) Superintendent	maintaining stormwater controls (also known as Best Management Practices (BMPs); and providing documentation as requested by other team members. The Superintendents are key to ensuring adequate
LOG-CS, Metals Fabrication Shop (MFS) Superintendent	communication and coordination of issues regarding implementation of the MSGP and this Plan. These Superintendents also assist the DEP/EPC- CP with training and/or briefings as requested.

# 1.3 Site Description

The MFS and PFS are located in the northwest portion of the Building. Industrial activities and major structures at Building 38 and shop areas are shown on the site map (FiguresB-1). The MFSSSA located on Eniwetok Dr. is shown on site map (Figure B-2).

Other operational areas (associated with the MFS) include an enclosed storage area in Building 37 Room 106 used for storing machine oil, as well as outdoor material storage areas in the western portion of the lots.

Loading docks and bays are also located on the west side of the building for all shops.

Building 38 also houses laboratory personnel in administrative offices or shops that are not part of this plan. Other facilities housed in Building 38 include a sheet metal shop, an ironworker's shop, a paint shop, a fire protection shop and an electrician's shop.

#### **Metal Fabrication Shops**

The primary operation of this facility is fabrication of metal components for a variety of uses around the Laboratory. All metal fabrication is performed indoors.

Outdoor activities at the facility include the following:

- Use of loading docks and bays for loading and unloading materials and fabricated items.
- Metal storage in designated yard areas, metal pipe racks.
- Shop vehicle and equipment (i.e. forklift) parking.
- Roll-off bins storing scrap metal for recycle.

A Pipe Fitter's shop (PFS) is located on the northwest side of Building 38, adjacent to the MFS. The shop cuts, grinds, and welds piping indoors and occasionally stores metal piping outdoors, which is covered with heavy duty tarps. For practical purposes, the Pipe Fitter's shop will be included within the industrial activities for the MFS.

#### Outfalls

#### Metal Fabrication Shop and Satellite Storage Area

Outfall 076 receives drainage from the fenced metal storage yard at the northeast portion of the yard. The outfall area is paved with asphalt. An asphalt berm installed around the perimeter of the fenced storage yard prevents run-on from impacting the site and acts to manage and divert run-off towards the MetalLoxx<sup>®</sup> wattles and Outfall 076. MetalLoxx<sup>®</sup> wattles installed at the outfall are designed to capture and filter heavy metals and slow stormwater runoff from the yard. Monitoring samples of stormwater discharge are collected with automated samplers identified as **MSGP07601** on the site map (see Figure B-1). Outfall 076 is the sole outfall for the MFS. Discharge is to Sandia Canyon via storm drain drop inlets that are located in the west parking lot of Building 38, and east of the fenced metal storage yard. The storm drain system discharge pipe runs south from the facility, through TA-03 and daylights east of Building 261.

Outfall 077 is located at the northeast corner of the facility, the outfall is designed to capture all of the runoff from the MFSSSA. The outfall area is stabilized with rock to minimize erosion. Before discharging into Sandia Canyon, runoff generated from the raw material storage area is managed by a rock berm that directs flows to Outfall 077. Stormwater discharge is monitored with automated sampler **MSGP07701** at this representative monitoring location (see Figure B-2).

# 1.4 General Location Map

The general location map for the facility can be found as Figure A. Figures B-1, B-2, B-3 and B-4 contain all site maps and receiving waters associated with stormwater discharges from the TA-03-38 Shops and MFSSA. 100% of the site flows to Sandia Canyon. The canyon at this location is a perennial stream and eventually flows into the Rio Grande approximately 10 miles southeast of the site.

# 1.5 Site Map

The site maps provided as Figures B-1, B-2 and B-3 illustrate the facility's activities: including facility boundaries, structures, impervious surfaces, industrial activity areas, spills, operational areas, drainage patterns, stormwater controls, monitoring locations, outfalls, and nearby receiving waters.

- Site boundaries and acreage. The site covers approximately 2.19 acres (total).
- Significant structures and impervious surfaces. The MFS is 100 % (primarily due to paved lots and structures) and the MFSSSA is 0% impervious.
- Direction of stormwater flow and site drainage. Direction of flow is indicated with arrows.
- Locations of stormwater control measures. Control measures are identified numerically.
- Locations of all receiving waters. Stormwater discharges to Sandia Canyon (Sigma Canyon to NPDES outfall 001) which is an impaired water. There is no TMDL for Sandia Canyon. A map of nearby receiving waters is provided as Figure B-3.
- 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. Each outfall has a unique identification code.
- 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 none in the direct vicinity of the TA-03-38 Shops. The MFSSSA is within critical habitat areas. A map for threatened and endangered species within LANL property is included as Figure B-4.
- 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:
  - loading/unloading areas;
  - o locations used for the treatment, storage, or disposal of waste;
  - o 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;
- o machinery; and
- o locations and sources of run-on to the site.

# 2.0 POTENTIAL POLLUTANT SOURCES

Industrial activities that could potentially result in releases of pollutants to the environment are summarized in Section 2.1 below. The site maps for the TA-03-38 Shops are in Figure B-1 and B-2.

#### **Metal Fabrication Shop**

Most industrial activities at the MFS take place indoors, where materials are not exposed to stormwater. Potential stormwater pollutants involve facility materials stored outdoors. These primarily include finished or raw metal stock, scrap metals or metal shavings that may contain residual cutting oils and outdoor activities such as loading/unloading materials at shop bays and vehicle/forklift parking.

The primary metal storage yard (located on the southwest side of the outdoor lot) is enclosed by a chain link fence and locked gate. The yard contains five covered metal storage racks and a covered bin for the temporary storage of scrap metal for recycling. Large pieces of scrap metal are stored on wooden pallets and kept covered with heavy-duty (28 mil.) tarps. A garbage dumpster and a cardboard recycling dumpster, both covered, are positioned on the north side of the outdoor lot.

The satellite storage yard (MFSSSA) located on the North side of Eniwetok Dr. contains metal storage racks for pipe and other miscellaneous metals. Raw materials are covered with tarps and runoff is managed by a rock berm installed around the northern perimeter of the site.

Machine oil is stored on secondary containment units inside TA-03-37-0106, a fully enclosed storage building, where it is not exposed to stormwater.

Vehicle parking is limited to areas adjacent to the north boundary fence line and west of Building 38. Forklifts are parked inside and occasionally outside on the west end of Building 38. Loading docks and bays on the west and southwest side of the facility are primarily used to transport metal stock or finished metal products to and from the shop.

The Pipe Fitter's shop, adjacent to the MFS, occasionally stores piping outside at the north fence line.

# 2.1 Potential Pollutants Associated with Industrial Activity

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

#### **Metal Fabrication Shop**

#### Covered Metal Raw Material Storage Area (Metal Storage Yard)

Potential pollutants include metals exposed to precipitation (rust).

#### Covered Metal-Recycle Roll-Off Bin

Potential pollutants include processed metal chips, turnings, small metal pieces, and cutting oil residues (if leakage occurred from the roll-off bin).

#### Pipe Storage Racks (Metal Storage Yard)

Potential pollutants include metal pipe exposed to precipitation (rust).

#### Vehicle Parking

Potential pollutants include leakage of fuel, oil, or hydraulic fluids.

# Forklift Storage

Potential pollutants include leakage of fuel, oil, or hydraulic fluids.

## **Dumpsters Containing Trash and Cardboard**

Potential pollutants include trash, debris, plastics, food, and cardboard, which can get blown around the parking lot or carried out of the dumpster by birds or other wildlife.

#### Solid Waste Management Unit (SWMU) or Consent Order Site

One SWMU is located within the boundary of the MFS at the southeast corner of the fenced metals storage yard. It is not included as part of the LANL NPDES or Individual Permit (IP) for SWMUs at the Laboratory covered under Sector K.

SWMU 03-013(i) consists of soil and gravel contaminated from historical releases of hydraulic oil at the former locations of Buildings 03-246 and 03-247, which were used to test the tensile strength of various steel cables used in conjunction with underground nuclear test assemblies. The Facility was constructed prior to 1967 and was operated until the mid-1980s when a replacement Facility was constructed on Sigma Mesa. Building 03-246 was a corrugated metal building constructed on a concrete slab and contained the controls for the pull test equipment, as well as a hydraulic oil compressor and storage tank. Building 03-247 was a corrugated metal building constructed on a concrete curb surrounding a gravel floor and contains two hydraulic rams used to perform the tensile strength testing. Hydraulic oil was provided to the rams through underground pipes between Buildings 03-246 and 03-247. The contamination identified at SWMU 03-013(i) consisted of oil-stained soil around Building 03-246 and oilstained gravel inside Building 03-247. At the former location of Building 03-246, hydraulic oil appears to have been released to the concrete slab floor inside the building and to have subsequently flowed beneath the building walls and onto the soil surrounding the building. Visible soil contamination existed along the north side of the building and along the northeast and northwest corners. The gravel floor inside Building 03-247 was visibly stained with oil in several locations beneath the hydraulic ram assembly.

**Note:** Both Buildings 03-246 and 03-247 were decommissioned and removed during the summer of 2004. While they are no longer present, SWMU 03-013 (i) was established to monitor and remediate spills that did occur while those two buildings were used to house test equipment.

SWMU 03-013(i) was not included in the 1990 SWMU Report or the OU1114 RFI Work Plan, but was discovered in 2004 during planning for the demolition of Buildings 03-246 and 03-247. Two samples of the oil-stained soil adjacent to the former location of Building 03-246 were collected by the Laboratory's Solid Waste Regulatory Compliance Group in 2004 and analyzed for inorganic chemicals, organic chemicals, PCBs, and total petroleum hydrocarbons (TPH). Four inorganic chemicals (cadmium, copper, lead, and zinc) were detected above BV, but below SALs. TPH was also detected, but no organic chemicals or PCBs were detected. Oil-stained soil was removed when the two buildings were demolished and confirmation samples were collected by the ER Project. This SWMU is being proposed for no further action (NFA) and is not a potential pollutant of concern in regard to the TA-03-38 MFS.

# 2.2 Spills and Leaks

There have been no spills or leaks since June 25, 2021, the initial date of coverage under the 2021 MSGP. Future spills and leaks will be documented as corrective actions and tracked.

Information on areas where spills and leaks could occur at the TA-03-38 Shops is provided below by shop location.

# **Metal Fabrication Shop**

Location	Outfalls (see site map)
Metal Storage Yard and Covered Metal Recycle Roll-Off Bin	076
Vehicle Parking	N/A
Forklift Storage	N/A
Loading and Unloading Operations	N/A
Pipe Fitter's Shop	N/A
MFSSSA Raw Material Metal Storage	077

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.

The probability of spills or releases at the facility is minimized by the application of good housekeeping procedures and appropriate operational methods. Spill protection and clean-up materials are readily available on site. Appropriate response measures for a spill or release of hazardous materials are applied when addressing spills. The specific spill response and cleanup procedures depend on the nature 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 non-stormwater discharges at the facility include the testing of fire hydrants in the area. All wastewater drainage within the building discharges to the Sanitary Wastewater System.

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-03-38 Metal Fabrication Shop and MFSSSA (Sigma Mesa storage yard for PFS)

#### CY 2021

Monitored Outfall	Discontinue Monitoring		Discontinue Monitoring Continue Monitoring							
	Average of four monitoring values did not exceed benchmark; quarterly monitoring discontinued until year 4 per Section 4.2.2.3.	Impaired water constituent was not detected in storm water discharge; annual monitoring discontinued until year 4 per Section 4.2.5.1.	Benchma Baseline	AIM Level 1	AIM Level 2	AIM Level 3	Indicator parameter monitoring required annually for entirety of permit.	Impaired water constituent was detected. Continue monitoring annually.	Impaired water constituent monitoring required in year 4.	
076	_	Total Aroclors	Al, NO2+NO3- N, Zn	_	_	_	N/A <sup>1</sup>	Al, Cu	_	
077	_	Total Aroclors	Al, NO2+NO3- N, Zn	_	_	_	N/A <sup>1</sup>	Al, Cu	_	

<sup>1</sup>N/A – Not applicable. No indicator parameter monitoring required.
 Al=Aluminum
 NO2+NO3-N=Nitrate plus Nitrite Nitrogen
 Zn=Zinc
 Cu=Copper

# 3.0 STORMWATER CONTROL MEASURES

Control measures at the facility are designed to minimize the potential for spills, releases, exposure of materials, or any other events that could adversely affect the quality of water and sediment that may be transported out of the area by stormwater runoff.

Proper material management and storage minimize the potential for exposure of precipitation and runoff to potentially hazardous materials. Containers that could be susceptible to spillage or leakage are plainly labeled (e.g., "Used Oil," "Spent Solvents," etc.). Most operations are performed indoors, and materials are stored indoors or outdoors in covered or enclosed structures. The potential for exposure of industrial materials to stormwater is limited primarily to loading/unloading operations at outdoor dock areas and yards, leaks from the transfer of machining oil from TA-03-37-0106 to the shops, leakage of oil from the metal recycle roll-off bin, or from vehicle parking in the west lots. Adequate secondary containment is provided for oil containing equipment.

## 3.1 Non-Numeric Technology-Based Effluent Limits

Part 8 of the 2021 MSGP identifies sector-specific requirements for **Sector AA** in addition to the general non-numeric 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 A 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 this facility.

#### **Metal Fabrication Shop**

#### **Raw Steel Handling Storage**

Most of the handling and all fabrication/processing occurs inside the MFS. All shavings, chips, turnings, and iron dust resulting from fabrication activities are contained in receptacles below each piece of machinery. Receptacles are emptied into bins located throughout the MFS. Once the bins are full of metal chips, turnings and small metal pieces, they, along with larger metal scrap pieces are emptied into the outside covered metal recycle roll-off bins located in the fenced metal storage yard. Scrap metal from Pipe Fitter's and other miscellaneous fieldwork is placed in the covered metal recycle roll-off bin located outdoors at the east side of the Pipe Fitter's Shop at TA-03-38, Room 104. Excess piping and other metals are either placed on covered elevated racks or on pallets covered with tarps in the northwest metals storage yard. Pipe Fitter's covered storage racks are located at the MFSSSA. No wastes are disposed on-site.

#### **Metal Fabricating Areas**

All areas are enclosed and maintained daily to ensure all chips, turning, and iron dust is contained. Areas around all machinery are swept and inspected daily for spills. Oil absorbent for dry cleanup is readily available in the event of leakage, and all hydraulic shear and rolling machines are equipped with equipment shields.

#### **Storage Areas for Raw Metal**

The primary outside metal storage area is the metal storage yard. Some metal or piping may be stored on a pallet covered with tarps within the metal storage yard. Most metal is stored on covered racks. Additional storage area containing pipe storage racks and miscellaneous metal storage, is maintained in a neat, orderly state at the MFSSSA. All raw metals stored at the site are covered with tarps.

<u>Metal Working Fluid Storage Area</u> Cutting and drilling fluids and oils used at the facility are stored in Building 37, Room 106. The room is fully enclosed and drums are stored on secondary containment. This area is not exposed to precipitation.

## **Cleaners and Rinse Water**

All rinse water and cleaners are located or stored inside to prevent stormwater contamination. Floor drains have either been closed or rerouted to the sanitary sewer system.

## Lubricating Oil and Hydraulic Fluid Operations

All operations occur inside to prevent stormwater contamination. In the case of temporary outdoor storage, secondary containment is utilized for lubrication oils in 55 gallon drums. Metal recycle roll-off bins are covered to prevent stormwater from contacting metal chips and turnings with cutting oil residue.

## **Chemical Storage Areas**

Any chemicals (including paints) used in the shop are stored inside buildings inside flammable cabinets if necessary. Chemical items are labeled appropriately and are inventoried annually through LANL's Chemlog (barcode) tracking system.

#### **Spills and Leaks**

A detailed description of spill prevention and response procedures is included in Section 3.1.4. The probability of spills or releases at the facility is minimized by the application of good housekeeping procedures and appropriate operational processes. Operational processes include use of drum dollies and drum grapplers on the forklifts for unloading and reloading.

There are no areas at this facility where chemical formulations are sprayed to provide surface protection; and no stormwater discharges associated with this type of activity.

#### 3.1.1 Minimize Exposure

Control measures at the facility are designed to minimize the potential for spills, releases, exposure of materials, or other events that could adversely affect water quality and sedimentation/erosion.

Most operations and storage areas are located within structures, so that the potential for exposure to stormwater is limited to the loading/unloading areas, the metal storage yard, and vehicle parking areas. When leaky vehicles or equipment are identified during daily or routine facility inspections, absorbents are applied until the vehicle or equipment is removed from the facility for maintenance or repair. Micro-Blaze<sup>®</sup> is sprayed on asphalt or concrete after all liquids have been absorbed. Locations for spill cleanup kits and spill response materials are described in Section 3.1.4 of this SWPPP. There are no hazardous waste storage areas associated with the shops. All major metal fabrication activities occur inside. Specific structural controls are listed below:

#### **Metal Fabrication Shop**

# Covered Metal Recycle Roll-Off Bins

Metal chips and turnings and scrap metal are placed inside covered roll-off bins which are shipped off site for recycle on a routine basis.

#### **Covered Metal and Pipe Storage Racks**

Metal raw material, pipe and finished/fabricated metal parts are stored on elevated racks to prevent direct contact with stormwater runoff. Where it is not feasible to store metal materials on covered racks (due to size, weight, etc.), the metal is stored off-ground on pallets and covered with sturdy, 28 mil tarps that are manufactured to last 25 years.

# **Spill Control**

Parking areas are frequently inspected for leaks and checked monthly during routine facility inspections. Oil absorbent is available in the MFS for containment if needed. Forklifts are parked inside on most occasions to reduce the potential for exposure to stormwater. Maintenance on forklifts is performed off site at the Heavy Equipment Shop.

## Petro-Plug<sup>®</sup> Oil Barrier

The Petro-Plug<sup>®</sup> oil barrier is installed at the end of the drain pipe that discharges excess stormwater from the trench drain/sump pump outside the Pipe Fitter's shop. The Petro-Pipe prevents any oil that may accumulate in the trench drain from being discharged. Pumping of the trench drain is required to prevent flooding of the adjacent shop. The Petro-Pipe is replaced every year. The replacement of this control is logged in Attachment 10 as maintenance.

## Berms (Run-on Control)

Mixed asphalt millings/earthen berms along Bikini Atoll Road and West Jemez Road prevent stormwater run-on to the MFS and PFS from adjacent roadways. An asphalt berm was installed around the outdoor metal storage yard in 2019 to prevent run-on and to channel all stormwater to the monitored outfall and stormwater controls. A rock berm is located along the northern perimeter of the MFSSSA. This berm manages runoff, prevents offsite sediment migration, and directs flows to the outfall and automated sampler. Whenever these berms need repair, they are identified as a condition requiring corrective action on the routine facility inspection form and entered into the EPC-CP CAR database and repaired.

#### Trash Dumpsters & Cardboard Recycle Dumpsters

Trash dumpsters and cardboard recycle dumpsters (adjacent to the facility) are kept closed when not in use and dumped on a regular basis. Dumpsters are kept in good condition and are repaired or replaced, if needed, by Roads & Grounds.

# MetalLoxx® Wattles

Wattles are used to filter out metal residuals in stormwater runoff. Currently 5 wattles are installed at the outfall location for the metal storage yard. There are also two more wattles placed at the east perimeter of the yard to intercept stormwater flow from the two metal racks staged at the east side. Wattles are replaced quarterly. Replacement of these wattles will be logged in Attachment 10. When replacement of wattles is noted on the routine facility inspection form, with installation dates, this information is tracked in the Maintenance Connection database.

3.1.2 Good Housekeeping

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

Site areas exposed to precipitation, including outfalls, are inspected during periodic walk downs to ensure grounds are kept in an orderly condition. Floatable debris, garbage, waste, sediments and other pollutant-carrying items are removed.

West parking areas are swept monthly with the vacuum sweeper to reduce sediment accumulation.

Trash and debris is disposed of in covered trash dumpsters. The trash dumpsters are serviced by Roads and Grounds on a weekly basis.

Outdoor metal storage areas at the MFS, PFS and MFSSSA are monitored to ensure metal and pipe is stored properly off the ground on storage racks and is covered. Large scrap metal is elevated and stored on pallets or contained inside a covered metal recycle roll-off bin within the metal storage yard at the MFS. Small metal pieces, chips and turnings may be contained in a closed metal drum within a larger roll-off bin or placed in a small covered 10 cubic yard scrap metal roll-off bin. Receptacles used to collect chips, turnings and small metal pieces are emptied into bins within MFS, which are then transferred to the larger bins outside.

Metal recycle roll-off bins are covered and monitored to ensure they are scheduled for pickup by the Material Recycling Facility (MRF) when they are 3/4 full.

Loading docks, storage sheds, vehicle loading and forklift parking areas are inspected for signs of spills or leaks. All spills and leaks are cleaned-up immediately per Section 3.1.4 of this SWPPP. Government vehicles and equipment found leaking fluids are removed immediately and sent to the Heavy Equipment Shop for maintenance.

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 washdown 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 implementing 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 are made according to the timelines specified in the *Corrective Actions and Deadlines* requirements of Section 6.0 of this SWPPP.

Deficient items (i.e., conditions requiring corrective action) identified during monthly routine facility inspections or other walk downs are documented on the inspection form and entered into the CAR database. All reasonable steps are taken immediately to address any identified condition requiring corrective action. The CAR will remain open until proper maintenance or corrective action has been completed. CAR information along with documentation of repair of control measures is kept on file 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.

Metallox Wattles are replaced every 3 months or sooner if needed (typically in March-April, June-July, and September-October). 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.

Maintenance like monthly sweeping, emptying roll-off bins when 3/4 full, replacing MetalLoxx<sup>®</sup> wattles every 3 months and replacing the Petro Plug every year are documented in the *Scheduled Maintenance Log* contained 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 Building 38 at the MFS and at the MFSSSA. Micro-Blaze<sup>®</sup> is kept in the DEP office at TA-03-1490.

In general, the approach to spill cleanup is to secure the spill area and contact the Shop Superintendent and/or the Emergency Management Division-Emergency Response (EMD-ER) Team (if necessary). For incidental releases, Micro-Blaze<sup>®</sup> 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 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 CAR database in accordance with EPC-CP-QP-022, *MSGP Corrective Actions*. In addition, the completion of an Unplanned Release Report is required in the event of a spill. The report will be submitted to EPC-CP personnel and handled according to internal spill record keeping procedures. Spills may be "reportable"

(requiring external agency notification) depending on the nature of the spilled material and the location of the release. External agency notification may consist of verbal and/or written notification to the National Response Center, Environmental Protection Agency Region VI, or the New Mexico Environment Department (NMED). EMD-ER, the FOD and EPC-CP, in accordance with Laboratory and DOE policies and federal and state regulatory reporting requirements, will make the determination for the type of reporting required. EPC-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-007, *Spill Investigations*, can be found in Attachment 22 of this SWPPP.

# 3.1.5 Erosion and Sediment Control

# **Metal Fabrication Shop**

The entire outside are associated with the shop, except for small plots of grass adjacent to the buildings, is paved with asphalt and concrete; therefore, erosion and sediment transport is unlikely. A mixed asphalt millings and earthen berm along Bikini Atoll Road and West Jemez Road prevents run-on to the shop's lot from adjacent roadways. Vacuum sweeping of the west lot at the MFS is done monthly except when snow prevents it. Regular vacuum sweeping reduces sediment accumulation on site and transport of associated pollutants. The potential for sediment migration from the covered raw metal storage areas located west of TA-03-38 is minimized by the asphalt berm installed around the perimeter of the area and MetalLoxx<sup>®</sup> wattles installed at Outfall 076.

The entire surface of the MFSSSA is stabilized with rock or gravel mulch which acts to prevent erosion and promote infiltration. The rock berm along the northern perimeter of the site manages sediment by reducing the potential for offsite sediment migration.

# 3.1.6 Management of Runoff

# **Metal Fabrication Shop**

Stormwater runoff from the facilities outdoor industrial activity areas is captured by 4 grated storm drains located on the west side of Building 03-38. In the event of a stormwater backup at the grated (trench) drain west of the Pipe Fitter's shop, the sump-pump discharges stormwater north, onto West Jemez Road. This is necessary to prevent the Pipe Fitter's shop from flooding.

Run-on generated from the paved area west of the metal storage yard is diverted around the metal storage yard into the grated storm drains located on the west side of Building 38. Runoff from the metal storage yard is managed by the berm along the fenced perimeter and the MetalLoxx<sup>®</sup> wattles installed at the outfall located at the northeast corner of the yard.

The grated drop inlets west of Building 38 are inspected during monthly routine facility inspections and all debris or other obstructions are removed immediately. All onsite and offsite storm drains at the facility connect to a common storm system and common outfall which daylights into a tributary of Sandia Canyon.

Runoff generated from the MFSSSA is minimal. Gravel mulch covers the entire footprint of the site and acts to infiltrate stormwater and minimize runoff. Runoff is managed by the perimeter rock berm located along the southern perimeter of the area.

See the site maps in Figures B-1, B-2 and B-3 and the outfall information provided in Section 1.3 for additional information on the drainage patterns and control measures associated with shops.

# 3.1.7 Salt Storage Piles or Piles Containing Salt

Salt storage piles or piles containing salt are not stored at this facility.

## 3.1.8 Dust Generation and Vehicle Tracking of Industrial Materials

The entire outside surface area of the facilities, except for small plots of dirt and grass adjacent to the site on the south boundary, is paved with asphalt and concrete. Other sections of adjacent property on the south side of the facility are stabilized with rock. Dust generation is therefore minimal, and dust suppression is not required. The MFSSA is stabilized with gravel mulch to prevent dust generation and vehicle tracking onto Eniwetok Dr.

## 3.2 Numeric Effluent Limitations Based on Effluent Limitations Guidelines

The TA-03-38 Shops are classified under **Sector AA-Fabricated Metal Products** and do not meet the industrial category requirements for effluent monitoring as listed in Part 2.1.3 (*Table 2-1 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 (2021) monitoring requirements, constituents and regulatory standards. Refer to Section 4.7 for specific actions that are taken when a water quality standard is exceeded.

Stormwater from the TA-03-38 Shops discharges to Sandia Canyon Assessment Unit NM-9000.A\_047 (Sigma Canyon to NPDES outfall 001). Certain stream reaches within Sandia Canyon have been identified as impaired waters by the NMED Surface Water Quality Bureau (SWQB). According to the 2020-2022 State of New Mexico Clean Water Act 303d/305b Integrated Report and Final List of Assessed Surface Waters, pollutants causing the impairment are listed as total recoverable Aluminum, PCBs (Aroclors), and dissolved Copper. EPA has not yet approved or established TMDLs for Sandia Canyon.

# 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 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 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 and Pollution Prevention Team members are responsible for ensuring all appropriate personnel receive this training.

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

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 performs at least one routine facility inspection per year at the facility 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 (SIOs)]; and
- Control measures used to comply with the effluent limits contained in this permit.

Specific areas of the facility to be inspected are described in Section 2.1 and 2.2.

During routine inspections, the following are examined:

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

Inspections performed by the PPT member are documented by completing the routine facility inspection form, which identifies all conditions requiring corrective action and other potential stormwater pollution issues that were encountered. All conditions requiring corrective actions identified during the inspection are addressed in accordance with Section 6.0 *Corrective Actions and Deadlines* of this plan. Facility

personnel or the DEP may also perform daily, weekly, or other periodic facility surveys (walk downs) between monthly routine facility 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 measureable 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 assess 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.); 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 discharge (taken during a measurable discharge from the site).

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

The PPT member performing the visual assessment documents potential stormwater pollution problems that were observed during the assessment on the quarterly visual assessment form. Any condition requiring corrective action 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 comprising Impaired Waters monitoring for industrial activity identified in Table 4-1 of the 2021 MSGP is performed annually on stormwater discharges from the site. If either of these scenarios occur, PFAS monitoring will cease. Indicator parameters are monitored quarterly. Monitoring occurs when storm events result in an actual discharge from the site and follow the preceding

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

Monitoring is conducted according to test procedures approved under 40 CFR Part 136. Runoff samples are collected by taking a minimum of one grab sample from a discharge, collected within the first 30 minutes of a measurable storm event. If it is not possible to collect the sample within the first 30 minutes of a measurable storm event, the sample will be 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 for the MFS occurs at automated sampling station **MSGP07601** as identified in Section 1.5. The automated sampler and outfall location is shown on the site map provided in Figure B-1. The primary contributor of pollutants to stormwater discharges from outfall 076 is metal storage, chips and turnings, and cutting oil. Seven MetalLoxx<sup>®</sup> wattles are used to manage runoff from the metal storage yard and treat metal residuals. Leaks and spills can occur from the product storage area or vehicles in the area.

Monitoring for the MFSSA occurs at automated sampling station **MSGP07701** as identified in Section 1.5. The outfall location is shown on the site map provided in Figure B-2. The primary contributor of pollutants to stormwater discharges from outfall 077 is metal stored on racks pallets in the satellite storage area. Raw material metal is covered and stored off the ground.

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

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

- Review the selection, design, installation, and implementation of control measures to determine if modifications are necessary to meet the effluent limits;
- Implement the necessary modifications within the timeframe specified for corrective action; and

• Continue 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 is 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 Stormwater Runoff Samplers and Retrieving Samples for the MSGP (Attachment 19); and
- 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.

Monitored Outfall	Monitoring Requirement	Industrial Sector	Assessment Unit	Analyte	Filtered/ Unfiltered	Regulatory Standard	Units	Regulatory Standard Type	Regulatory Standard Reference
	Quarterly Benchmark	AA	_	Al	F10u <sup>1</sup>	1100	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
076	Quarterly Benchmark	AA	_	Zn	F <sup>2</sup>	104	μg/L	NM 2010 Aquatic Acute 75 mg	20.6.4.900 NMAC Subpart I
	Impaired Waters	-	NM-9000.A_047	Al	F10u <sup>1</sup>	N/A	μg/L	Report Only	Part 4.2.5.1
	Impaired Waters	_	NM-9000.A_047	Cu	F <sup>2</sup>	N/A	μg/L	Report Only	Part 4.2.5.1
	Quarterly Benchmark	AA	_	Al	F10u <sup>1</sup>	1100	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
077	Quarterly Benchmark	AA	_	Zn	F <sup>2</sup>	104	μg/L	NM 2010 Aquatic Acute 75 mg	20.6.4.900 NMAC Subpart I
	Impaired Waters	_	NM-9000.A_047	Al	F10u <sup>1</sup>	N/A	μg/L	Report Only	Part 4.2.5.1
	Impaired Waters	_	NM-9000.A_047	Cu	F <sup>2</sup>	N/A	μg/L	Report Only	Part 4.2.5.1

#### **2022** Monitoring Year Requirements

<sup>1</sup>F10u – 10 μm filter

<sup>2</sup>F - 0.45 μm filter

N/A=Not applicable

Al=Aluminum

µg/L=Micrograms per Liter

UF=Unfiltered

mg/L=Milligrams per Liter

NO3+NO2-N=Nitrate plus Nitrite Nitrogen

Zn=Zinc

NMAC=New Mexico Administrative Code

NM=New Mexico

Cu=Copper

PFOS=Perfluorooctane Sulfonate

Zn=Zinc

NMAC=New Mexico Administrative Code

# 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-17-29454) was last updated in October 2017 (see Attachment 13). This document provides a management strategy for the protection of threatened and endangered species and their habitats on LANL property. The MSGP IPaC Trust Resource Report (see Attachment 14) is also attached for informational purposes.

## 5.2 Historic Properties

In 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-03-38 Metals Fabrication Shop
- TA-09-0214 Metals Fabrication Shop
- TA-16 Stockpile area
- TA-60 Asphalt Batch Plant
- TA-60-1 Heavy Equipment Yard
- TA-60 Material Recycle Facility
- TA-60 Roads and Grounds
- TA-60-2 Warehouse

# 6.0 CORRECTIVE ACTIONS AND DEADLINES

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

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

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

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

- Construction or a change in design, operation, or maintenance at the facility significantly changes the nature of pollutants discharged in stormwater from the facility, or significantly increases the quantity of pollutants discharged; or
- The average of 4 quarterly sampling results exceeds an applicable benchmark. If less than 4 benchmark samples have been taken, but the results are such that an exceedance of the 4 quarter average is mathematically certain (i.e., if the sum of quarterly sample results to date is more than 4 times the benchmark level) this is considered a benchmark exceedance, triggering this review (see Section 4.7); or
- If an impaired water constituent exceeds the New Mexico 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 nesessary 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 Attachment 10 of this SWPPP. Where corrective actions result in changes to procedures or controls documented in this SWPPP, modifications to the SWPPP are made accordingly within 14 calendar days of completing the corrective action(s). LANL procedure EPC-CP-QP-022, *MSGP Corrective Actions* can be found in Attachment 17.

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
HAZMAT	Hazardous Materials (Response Group)
IPaC	Information for Planning and Consultation
LANL or the Laboratory	Los Alamos National Laboratory
LANS	Los Alamos National Security
LOG-CS	Logistics-Central Shops
MFSSSA	Metals Fabrication Shop Satellite Storage Area
MFS	Metal Fabrication Shop
MRF	Material Recycling Facility
MSGP or Permit	Multi-Sector General Permit
NMED	New Mexico Environment Department
NOI	Notice of Intent
NPDES	National Pollutant Discharge Elimination System
PFS	Pipe Fitter's Shop
РРТ	Pollution Prevention Team
ТРН	Total Petroleum Hydrocarbons
SWMU	Solid Waste Management Unit
SWPPP	Stormwater Pollution Prevention Plan
URL	Uniform Resource Locator
UI	Utilities and Institutional Facilities
UIS	Utilities & Infrastructure Support

8.0 SWPPP CERTIFICATION

#### STORMWATER POLLUTION PREVENTION PLAN TA-03-38 Metal Fabrication Shops Los Alamos National Laboratory

#### **CERTIFICATION STATEMENT**

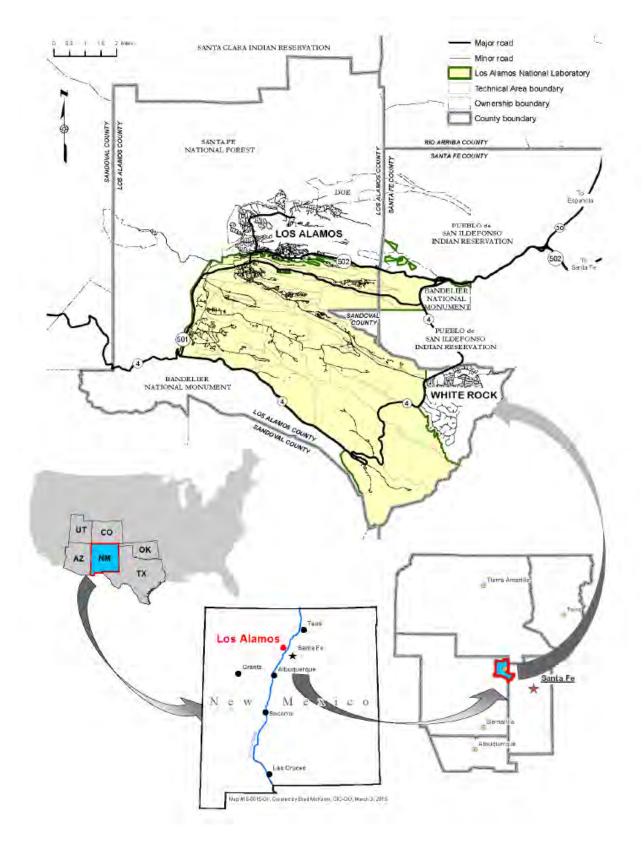
I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage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

BRIAN WATKINS (Affiliate) Digitally signed by BRIAN WATKINS (Affiliate) Date: 2022.01.31 08:38:02 - 07'00'

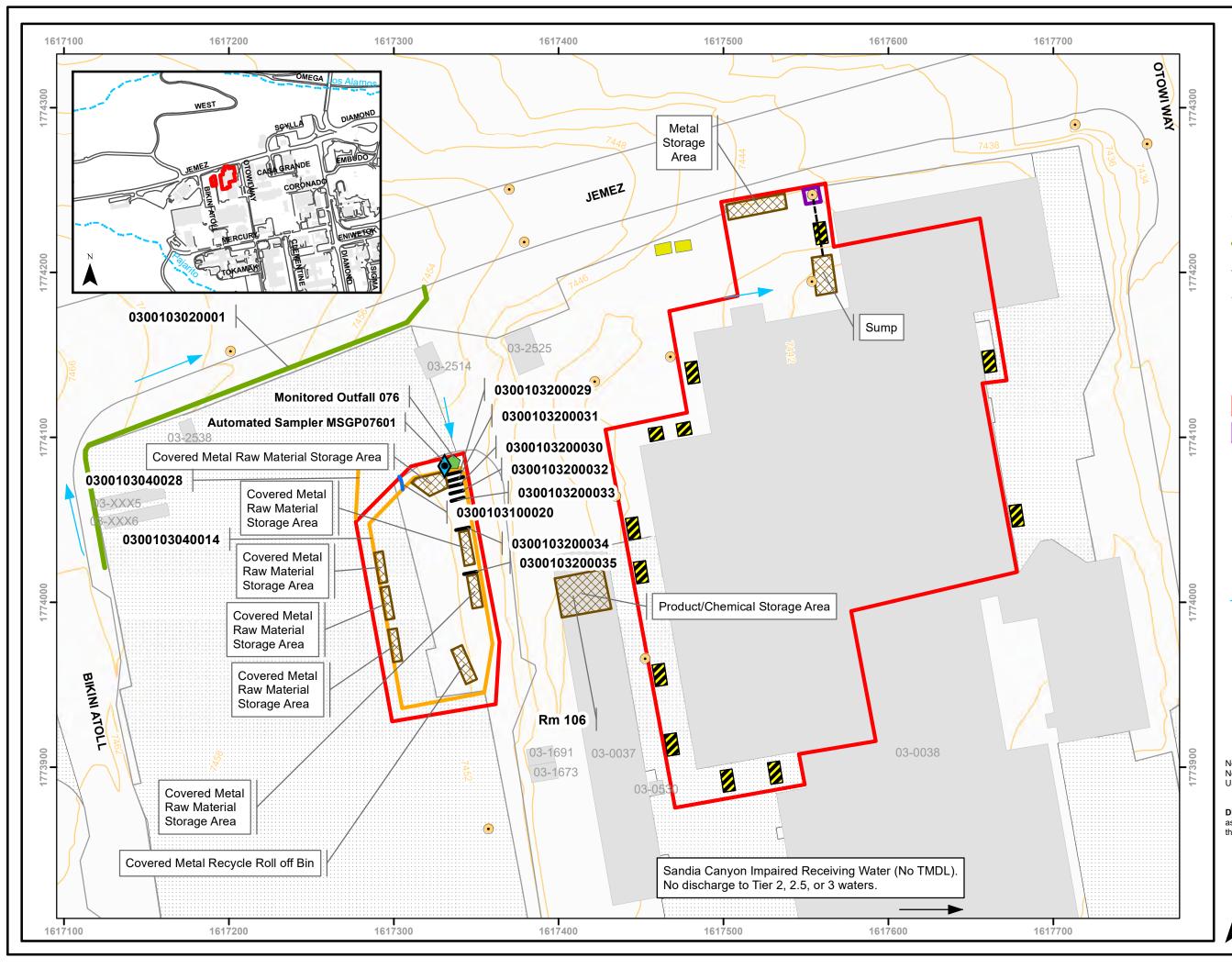
Date 1/31/2022

Brian Watkins Operations Manager 6 LOG-DIV

#### FIGURE A: GENERAL LOCATION MAP

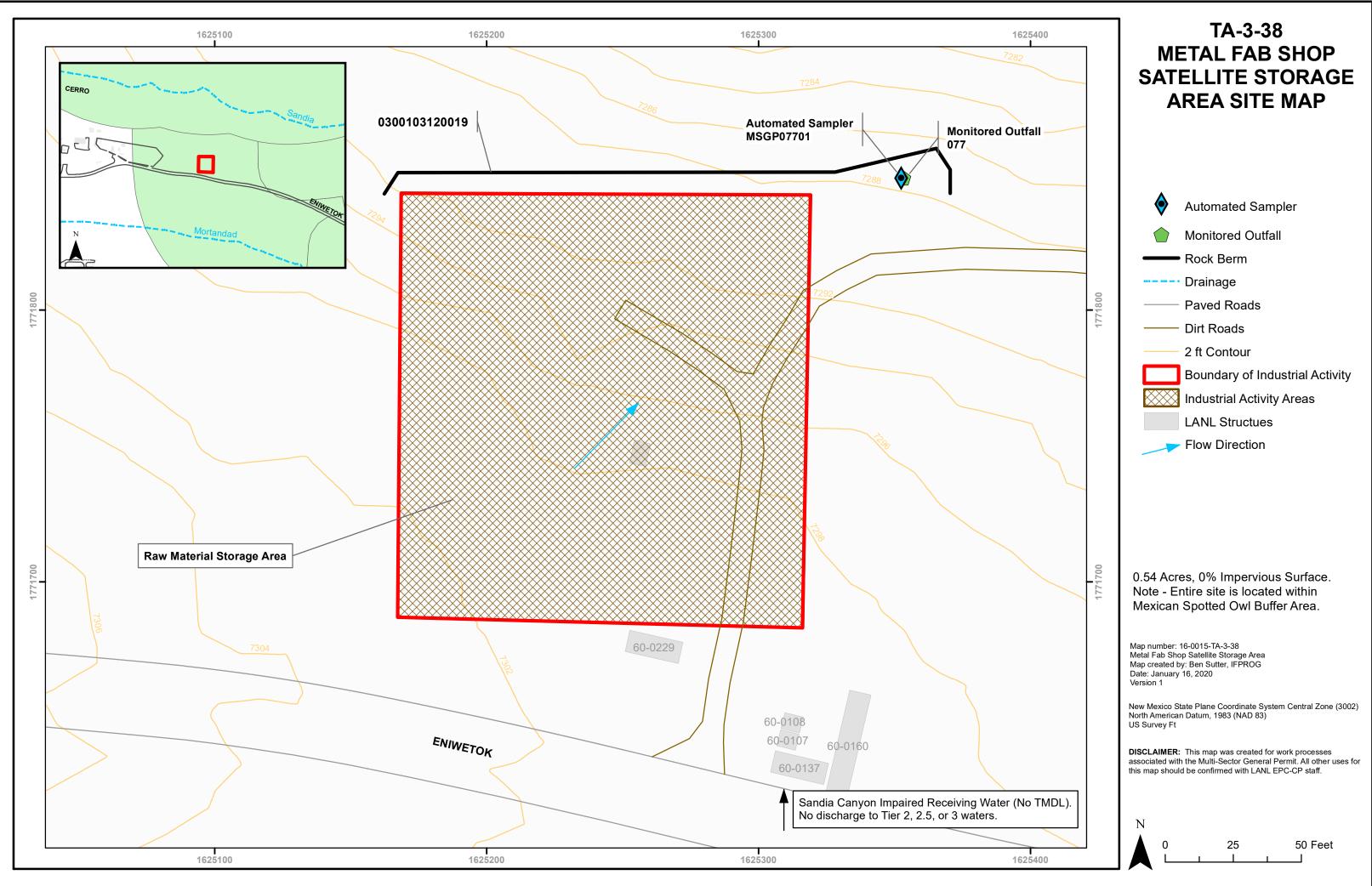


#### FIGURE B-1 FACILITY SITE MAP METALS FABRICATION AND PIPE FITTER'S SHOPS

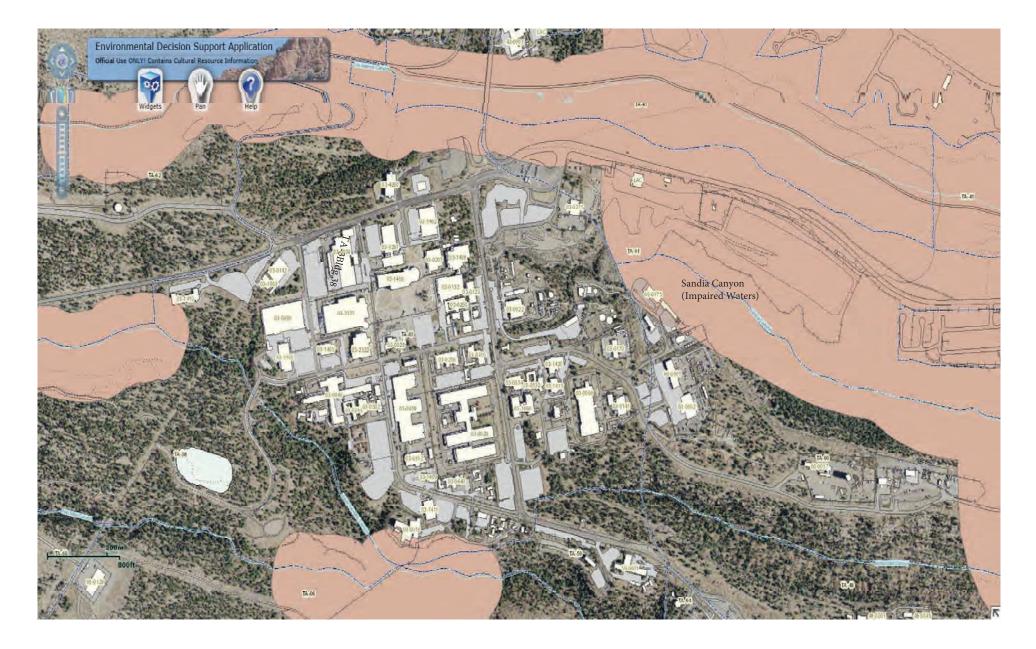




FIGIRE B-2 METALS FABRICATION SHOP SATELLITE STORAGE AREA

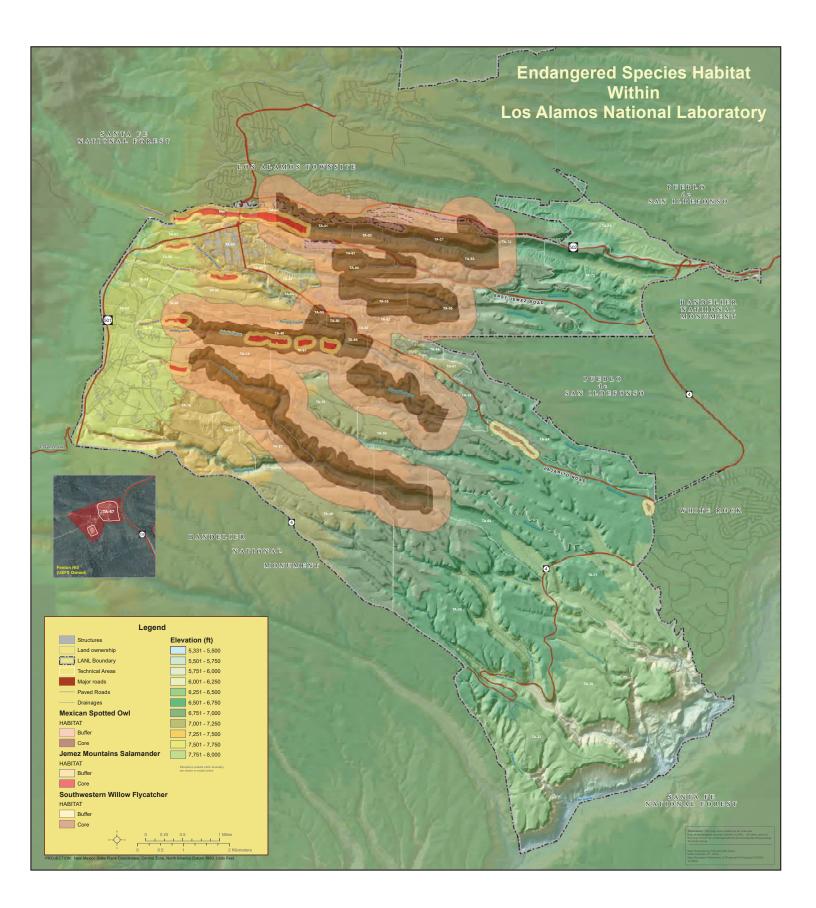


#### FIGURE B-3 NEARBY RECEIVING WATERS



http://gis-arcserver-p/DSA\_Rev3/default.aspx

FIGURE B-4 ENDANGERED SPECIES MAP



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

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



To:

2021-06-25

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

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

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

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

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

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

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

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

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

If you have questions about this email or about NeT, please refer to the <u>NeT Help Center</u> or call 877-227-8965 or e-mail <u>NPDESereporting@epa.gov</u> for assistance.

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

2021-06-25

Dear NeT User,

Coverage status has changed for a facility under the MSGP.

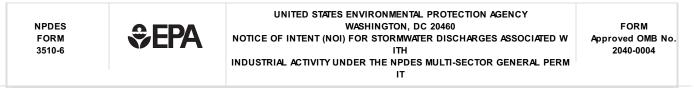
NPDES ID	Coverage Type	Coverage Status	Operator	Facility Name
NMR050013	General Permit	Active	Triad National Security LLC	LOS ALAMOS NATIONAL LABORATORY

A copy of the submission can be found <u>here</u>.

You will be receiving a separate email providing the Operator's authorization to discharge under the 2021 MSGP.

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

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



Permit Information

Master Permit Number: NMR050000

NPDES ID: NMR050013

## **Eligibility Information**

State/territory where your facility is discharging: NM

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

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

Yes

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

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

Yes

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

No

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

- If yes, provide your most current NPDES ID (i.e., permit tracking number) if you had coverage under EPA's MSGP or the NPDES permit number if you had coverage under an EPA individual permit: NMR050013
- Are you discharging to any waters of the U.S. that are designated by the state or tribal authority under its antidegradation policy as a Tier 3 water (Outstanding National Resource water)? (See Appendix L (https://www.epa.gov/sites/production/files/2021-01/documents/2021\_msgp\_-\_appendix\_I\_-\_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 Mailing Address

Address Line 1: PO Box 1663

Address Line 2: MS K490

ZIP/Postal Code: 87545

City: Los Alamos

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

 $\ensuremath{\textcircled{}}$  This NOI is being prepared by someone other than the certifier.

 First Name
 Middle Initial
 Last Name:
 Holly
 L
 Wheeler

 Organization:
 Triad National Security LLC
 Ext.:
 Ext.:

 Email:
 hbenson@lanl.gov
 Ext.:
 Ext.:

Facility Information

## **Facility Information**

Facility Name: LOS ALAMOS NATIONAL LABORATORY

## **Facility Address**

Address Line 1: PO BOX 1663

Address Line 2: MS K490

ZIP/Postal Code: 87545

County or Similar Division: Los Alamos

## Latitude/Longitude for the Facility

Latitude/Longitude: 35.872777°N, 106.321127°W

Latitude/Longitude Data Source: GIS

Horizontal Reference Datum: WGS 84

City: LOS ALAMOS

State: NM

## **General Facility Information**

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

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

#### Is your facility presently inactive and unstaffed? No

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

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

### Sector-Specific Information

#### **Discharge Information**

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

Yes

## Federal Effluent Limitation Guidelines

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

40 CFR Part/Subpart	Eligible Discharges	Affected MSGP Sector	New Source Date	Applicability
Part 443, Subpart A	Runoff from asphalt emulsion facilities	D	07/28/1975	Does your facility 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

## 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
	<b>D</b> - 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	<b>P1</b> - 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	A41 - Fabricated Metal Products, Except Machinery and Transportation Equipment, and Coating, Engraving, and Allied Services; Jewelry, Silverware, and Plated Ware	3499

Latitude/Longitude: 35.873193°N, 106.313116°W

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

✤ Substantially Identical to Discharge Point ID: 022

#### **Receiving Water**

GNIS Name:

Waterbody Name: SANDIA CANYON (SIGMA CANYON TO NPDES OUTFALL 001) Listed Water ID: NM-9000.A\_047

Is this receiving water saltwater or freshwater? Freshwater

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

No

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

No

## **Benchmark Monitoring**

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

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

(mg/L)

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

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

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

Has a TMDL been completed for this receiving waterbody? No

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

#### **Applicable Sectors**

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

	Sector	Subsector	SIC/Activity Code
	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
•	<ul> <li>P - LAND TRANSPORTATION AND WAREHOUSING</li> <li>P1 - Railroad Transportation; Local and Highway Passenger Transportation; Motor Freight Transportation and Warehousing; United States Postal Service; Petroleum Bulk Stations and Terminals</li> </ul>		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

Latitude/Longitude: 35.873046°N, 106.315069°W

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

✤ Substantially Identical to Discharge Point ID: 022

#### **Receiving Water**

GNIS Name:

Waterbody Name: SANDIA CANYON (SIGMA CANYON TO NPDES OUTFALL 001) Listed Water ID: NM-9000.A\_047

Is this receiving water saltwater or freshwater? Freshwater

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

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?

### **Benchmark Monitoring**

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

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

(mg/L)

## Impaired Waters Monitoring

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

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

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

Has a TMDL been completed for this receiving waterbody? No

#### Discharge Point 039: TA-60 Roads and Grounds

### **Applicable Sectors**

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

	Sector	Subsector	SIC/Activity Code
D - ASPHALT PAVING AND     D1 - Asphalt Paving and Roofing Materials       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	<b>P1</b> - 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	<b>AA1</b> - Fabricated Metal Products, Except Machinery and Transportation Equipment, and Coating, Engraving, and Allied Services; Jewelry, Silverware, and Plated Ware	3499

Latitude/Longitude: 35.867826°N, 106.291726°W

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

#### **Receiving Water**

#### GNIS Name:

Waterbody Name: SANDIA CANYON (SIGMA CANYON TO NPDES OUTFALL 001) Listed Water ID: NM-9000.A\_047

Is this receiving water saltwater or freshwater? Freshwater

Is this receiving water designated by the state or tribal authority under its antidegradation policy as a Tier 2 (or Tier 2.5) water (water quality exceeds levels necessary to support propagation of fish, shellfish, and wildlife and recreation in and on the water)? No

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

No

#### **Benchmark Monitoring**

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

### Impaired Waters Monitoring

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

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

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

Has a TMDL been completed for this receiving waterbody? No

#### Discharge Point 032: TA-60 Roads and Grounds

#### **Applicable Sectors**

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

	Sector	Subsector	SIC/Activity Code
	<b>D</b> - ASPHALT PAVING AND ROOFING MATERIALS AND	D1 - Asphalt Paving and Roofing Materials	2951
	LUBRICANTS		

	N - SCRAP RECYCLING FACILITIES	N2 - Source-separated Recycling Facility	5093
¥	P - LAND TRANSPORTATION AND WAREHOUSING	<b>P1</b> - 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	<b>A41</b> - Fabricated Metal Products, Except Machinery and Transportation Equipment, and Coating, Engraving, and Allied Services; Jewelry, Silverware, and Plated Ware	3499

Latitude/Longitude: 35.870741°N, 106.306812°W

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

**Receiving Water** 

GNIS Name:

Waterbody Name: SANDIA CANYON (SIGMA CANYON TO NPDES OUTFALL 001) Listed Water ID: NM-9000.A\_047

Is this receiving water saltwater or freshwater? Freshwater

Is this receiving water designated by the state or tribal authority under its antidegradation policy as a Tier 2 (or Tier 2.5) water (water quality exceeds levels necessary to support propagation of fish, shellfish, and wildlife and recreation in and on the water)? No

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

No

#### **Benchmark Monitoring**

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

## Impaired Waters Monitoring

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

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

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

Has a TMDL been completed for this receiving waterbody? No

## **Applicable Sectors**

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

	Sector	Subsector	SIC/Activity Code
	<b>D</b> - ASPHALT PAVING AND ROOFING MATERIALS AND LUBRICANTS	D1 - Asphalt Paving and Roofing Materials	2951
	N - SCRAP RECYCLING FACILITIES	N2 - Source-separated Recy cling Facility	5093
¥	P - LAND TRANSPORTATION AND WAREHOUSING	<b>P1</b> - 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

Latitude/Longitude: 35.870603°N, 106.306055°W

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

✤ Substantially Identical to Discharge Point ID: 032

#### **Receiving Water**

GNIS Name:

Waterbody Name: SANDIA CANYON (SIGMA CANYON TO NPDES OUTFALL 001) Listed Water ID: NM-9000.A\_047

Is this receiving water saltwater or freshwater? Freshwater

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

No

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

No

### **Benchmark Monitoring**

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

## Impaired Waters Monitoring

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

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

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

Has a TMDL been completed for this receiving waterbody? No

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

### **Applicable Sectors**

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

	Sector	Subsector	SIC/Activity Code
	<b>D</b> - ASPHALT PAVING AND ROOFING MATERIALS AND LUBRICANTS	D1 - Asphalt Paving and Roofing Materials	2951
	N - SCRAP RECYCLING FACILITIES	N2 - Source-separated Recycling Facility	5093
V	P - LAND TRANSPORTATION AND WAREHOUSING	<b>P1</b> - 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	<b>AA1</b> - Fabricated Metal Products, Except Machinery and Transportation Equipment, and Coating, Engraving, and Allied Services; Jewelry, Silverware, and Plated Ware	3499

Latitude/Longitude: 35.872505°N, 106.313542°W

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

✤ Substantially Identical to Discharge Point ID: 026

#### **Receiving Water**

GNIS Name:

Waterbody Name: SANDIA CANYON (SIGMA CANYON TO NPDES OUTFALL 001) Listed Water ID: NM-9000.A\_047

Is this receiving water saltwater or freshwater? Freshwater

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

No

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

No

## **Benchmark Monitoring**

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

## Impaired Waters Monitoring

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

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

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

Has a TMDL been completed for this receiving waterbody? No

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

## **Applicable Sectors**

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

	Sector	Subsector	SIC/Activity Code
	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

Latitude/Longitude: 35.870474°N, 106.305432°W

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

✤ Substantially Identical to Discharge Point ID: 032

**Receiving Water** 

GNIS Name:

Waterbody Name: SANDIA CANYON (SIGMA CANYON TO NPDES OUTFALL 001) Listed Water ID: NM-9000.A\_047

Is this receiving water saltwater or freshwater? Freshwater

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

No

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

No

## Benchmark Monitoring

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

## Impaired Waters Monitoring

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

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

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

Has a TMDL been completed for this receiving waterbody? No

#### Discharge Point 043: TA-60 Asphalt Batch Plant

## **Applicable Sectors**

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

	Sector	Subsector	SIC/Activity Code
¥	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	<b>P1</b> - 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	<b>AA1</b> - Fabricated Metal Products, Except Machinery and Transportation Equipment, and Coating, Engraving, and Allied Services; Jewelry, Silverware, and Plated Ware	3499

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 $\hfill\square$  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)?

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

No

### **Benchmark Monitoring**

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

### Impaired Waters Monitoring

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

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

Cause of Impairment Group	Pollutant
POLYCHLORINATED BIPHENYLS (PCBS)	Poly chlorinated bipheny Is [PCBs]
MERCURY	Mercury, total [as Hg]
METALS (OTHER THAN MERCURY)	Copper, dissolved [as Cu]
RADIATION	Alpha, gross adjusted

Has a TMDL been completed for this receiving waterbody? No

#### Discharge Point 031: TA-60 Roads and Grounds

### **Applicable Sectors**

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

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	<b>P1</b> - 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	<b>A41</b> - Fabricated Metal Products, Except Machinery and Transportation Equipment, and Coating, Engraving, and Allied Services; Jewelry, Silverware, and Plated Ware	3499

Latitude/Longitude: 35.869227°N, 106.305685°W

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

**Receiving Water** 

GNIS Name:

Waterbody Name: MORTANDAD CANYON (WITHIN LANL) Listed Water ID: NM-9000.A\_042

Is this receiving water saltwater or freshwater? Freshwater

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

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

No

## **Benchmark Monitoring**

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

## Impaired Waters Monitoring

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

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

Cause of Impairment Group	Pollutant
POLYCHLORINATED BIPHENYLS (PCBS)	Poly chlorinated bipheny Is [PCBs]
MERCURY	Mercury, total [as Hg]
METALS (OTHER THAN MERCURY)	Copper, dissolved [as Cu]
RADIATION	Alpha, gross adjusted

Has a TMDL been completed for this receiving waterbody? No

## **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 Recy cling Facility	5093
V	P - LAND TRANSPORTATION AND WAREHOUSING	<b>P1</b> - 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	A41 - Fabricated Metal Products, Except Machinery and Transportation Equipment, and Coating, Engraving, and Allied Services; Jewelry, Silverware, and Plated Ware	3499

Latitude/Longitude: 35.870712°N, 106.306443°W

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

✤ Substantially Identical to Discharge Point ID: 032

#### **Receiving Water**

GNIS Name:

Waterbody Name: SANDIA CANYON (SIGMA CANYON TO NPDES OUTFALL 001) Listed Water ID: NM-9000.A\_047

Is this receiving water saltwater or freshwater? Freshwater

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

No

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

No

### **Benchmark Monitoring**

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

### Impaired Waters Monitoring

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

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

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

Has a TMDL been completed for this receiving waterbody?  $\underline{No}$ 

#### 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
	<b>D</b> - 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	<b>P1</b> - 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

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** 

## Impaired Waters Monitoring

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

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

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

Has a TMDL been completed for this receiving waterbody? No

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

### **Applicable Sectors**

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

	Sector	Subsector	SIC/Activity Code
	<b>D</b> - 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	<b>P1</b> - Railroad Transportation; Local and Highway Passenger Transportation; Motor Freight Transportation and Warehousing; United States Postal Service; Petroleum Bulk Stations and Terminals	4212
D	AA - FABRICATED METAL PRODUCTS	<b>AA1</b> - Fabricated Metal Products, Except Machinery and Transportation Equipment, and Coating, Engraving, and Allied Services; Jewelry, Silverware, and Plated Ware	3499

#### Latitude/Longitude: 35.869325°N, 106.306926°W

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

Substantially Identical to Discharge Point ID: 031

#### **Receiving Water**

GNIS Name:

Waterbody Name: MORTANDAD CANYON (WITHIN LANL) Listed Water ID: NM-9000.A\_042 Is this receiving water saltwater or freshwater? Freshwater

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

No

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

No

### **Benchmark Monitoring**

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

### Impaired Waters Monitoring

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

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

Cause of Impairment Group	Pollutant
POLYCHLORINATED BIPHENYLS (PCBS)	Poly chlorinated bipheny Is [PCBs]
MERCURY	Mercury, total [as Hg]
METALS (OTHER THAN MERCURY)	Copper, dissolved [as Cu]
RADIATION	Alpha, gross adjusted

Has a TMDL been completed for this receiving waterbody? No

#### Discharge Point 029: TA-60 Metals Recycling Facility

## **Applicable Sectors**

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

	Sector	Subsector	SIC/Activity Code
	<b>D</b> - ASPHALT PAVING AND ROOFING MATERIALS AND LUBRICANTS	<b>D1</b> - 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	<b>AA1</b> - Fabricated Metal Products, Except Machinery and Coating, Engraving, and Allied Services; Jewelry, Silvery		3499
Latitu	<b>ıde/Longitude:</b> 35.873969°N, 10	6.313281°W		
🗆 Thi	s discharge point is <i>Substantia</i>	ally Identical to an existing discharge point.		
Rec	eiving 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				
		/ the state or tribal authority under its antidegradation p propagation of fish, shellfish, and wildlife and recreatic	,	rater (water quali
No				

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

No

### **Benchmark Monitoring**

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

### Impaired Waters Monitoring

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

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

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

Has a TMDL been completed for this receiving waterbody? No

#### Discharge Point 075: TA-60-2 Warehouse

### **Applicable Sectors**

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

	Sector	Subsector	SIC/Activity Code
	<b>D</b> - 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	<b>P1</b> - 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

#### Latitude/Longitude: 35.871154°N, 106.31294°W

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

**Receiving Water** 

GNIS Name:

Waterbody Name: SANDIA CANYON (SIGMA CANYON TO NPDES OUTFALL 001) Listed Water ID: NM-9000.A\_047

Is this receiving water saltwater or freshwater? Freshwater

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

No

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

No

#### **Benchmark Monitoring**

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

### Impaired Waters Monitoring

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

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

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

Has a TMDL been completed for this receiving waterbody? No

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

## **Applicable Sectors**

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

	Sector	Subsector	SIC/Activity Code
	<b>D</b> - ASPHALT PAVING AND ROOFING MATERIALS AND LUBRICANTS	D1 - Asphalt Paving and Roofing Materials	2951
D	N - SCRAP RECYCLING FACILITIES	N2 - Source-separated Recycling Facility	5093
V	P - LAND TRANSPORTATION AND WAREHOUSING	<b>P1</b> - 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

Latitude/Longitude: 35.872514°N, 106.313562°W

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

✤ Substantially Identical to Discharge Point ID: 022

#### **Receiving Water**

GNIS Name:

Waterbody Name: SANDIA CANYON (SIGMA CANYON TO NPDES OUTFALL 001) Listed Water ID: NM-9000.A\_047

Is this receiving water saltwater or freshwater? Freshwater

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

No

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

No

#### **Benchmark Monitoring**

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

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

(mg/L)

### Impaired Waters Monitoring

NOTE: The information automatically populated in this section for determining if the receiving water is listed as impaired on the 303(d) list and in need of a TMDL, the cause(s) of the impairment if the receiving water is impaired on the CWA 303(d) list, if a TMDL has been completed for the receiving

waterbody, and the TMDL ID and pollutants for which there is a TMDL may be outdated and inaccurate. It is recommended that you consult with your state's guidance for discharges into impaired waters to determine the correct pollutants and TMDLS and update the causes for the impairment and TMDL information accordingly.

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

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

Has a TMDL been completed for this receiving waterbody? No

#### **Discharge Point 042: TA-60 Roads and Grounds**

#### **Applicable Sectors**

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

	Sector	Subsector	SIC/Activity Code
	<b>D</b> - ASPHALT PAVING AND ROOFING MATERIALS AND LUBRICANTS	D1 - Asphalt Paving and Roofing Materials	2951
	N - SCRAP RECYCLING FACILITIES	N2 - Source-separated Recycling Facility	5093
V	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

Latitude/Longitude: 35.867047°N, 106.289163°W

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

#### **Receiving Water**

GNIS Name:

Waterbody Name: SANDIA CANYON (SIGMA CANYON TO NPDES OUTFALL 001) Listed Water ID: NM-9000.A\_047

Is this receiving water saltwater or freshwater? Freshwater

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

No

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

No

# **Benchmark Monitoring**

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

# Impaired Waters Monitoring

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

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

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

Has a TMDL been completed for this receiving waterbody? No

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

# **Applicable Sectors**

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

	Sector	Subsector	SIC/Activity Code
	<b>D</b> - ASPHALT PAVING AND ROOFING MATERIALS AND LUBRICANTS	D1 - Asphalt Paving and Roofing Materials	2951
	N - SCRAP RECYCLING FACILITIES	N2 - Source-separated Recycling Facility	5093
V	<b>P</b> - LAND TRANSPORTATION AND WAREHOUSING	<b>P1</b> - 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

Latitude/Longitude: 35.872661°N, 106.313691°W

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

**Receiving Water** 

GNIS Name:

Waterbody Name: SANDIA CANYON (SIGMA CANYON TO NPDES OUTFALL 001) Listed Water ID: NM-9000.A\_047

Is this receiving water saltwater or freshwater? Freshwater

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

No

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

No

# **Benchmark Monitoring**

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

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

(mg/L)

# Impaired Waters Monitoring

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

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

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

Has a TMDL been completed for this receiving waterbody? No

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

# **Applicable Sectors**

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

	Sector	Subsector	SIC/Activity Code
	<b>D</b> - ASPHALT PAVING AND ROOFING MATERIALS AND LUBRICANTS	D1 - Asphalt Paving and Roofing Materials	2951
	N - SCRAP RECYCLING FACILITIES	N2 - Source-separated Recycling Facility	5093
۷	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 Tr Coating, Engraving, and Allied Services; Jewelry, Silverwa		3499
- 11 4		0.045.481W		
atitu	ide/Longitude: <u>35.872928°N</u> , 10	16.3154 W		
ያ Thi	s discharge point is <i>Substanti</i>	ally Identical to an existing discharge point.		
*	Substantially Identical to Disc	harge Point ID: 022		
Rec	eiving Water			
GNIS	Name:	Waterbody Name:	Listed Water ID:	
		SANDIA CANYON (SIGMA CANYON TO NPDES OUTFALL 001)	NM-9000.A_047	
s this	s receiving water saltwater or f	reshwater? Freshwater		
e thia	s receiving water designated b	y the state or tribal authority under its antidegradation po	licy as a Tier 2 (or Tier 2 5) w	ator (wator qualit
		t propagation of fish, shellfish, and wildlife and recreation	,	ater (water quart
No				
		es from paved surfaces that will be initially sealed or re-sea	aled with coal-tar sealcoat wh	ere industrial
	ties are located during coverag	je under this permit?		
No				
No				
No	nchmark Monitorii	ng		

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

(mg/L)

# Impaired Waters Monitoring

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

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

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

Has a TMDL been completed for this receiving waterbody? No

# **Applicable Sectors**

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

	Sector	Subsector	SIC/Activity Code
	<b>D</b> - ASPHALT PAVING AND ROOFING MATERIALS AND LUBRICANTS	D1 - Asphalt Paving and Roofing Materials	2951
0	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	A41 - Fabricated Metal Products, Except Machinery and Transportation Equipment, and Coating, Engraving, and Allied Services; Jewelry, Silverware, and Plated Ware	3499

Latitude/Longitude: 35.872114°N, 106.313105°W

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

**Receiving Water** 

GNIS Name:

Waterbody Name: SANDIA CANYON (SIGMA CANYON TO NPDES OUTFALL 001) Listed Water ID: NM-9000.A\_047

Is this receiving water saltwater or freshwater? Freshwater

Is this receiving water designated by the state or tribal authority under its antidegradation policy as a Tier 2 (or Tier 2.5) water (water quality exceeds levels necessary to support propagation of fish, shellfish, and wildlife and recreation in and on the water)? No

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

No

# **Benchmark Monitoring**

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

# Impaired Waters Monitoring

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

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

Cause of Impairment Group	1h	Pollutant
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POLYCHLORINATED BIPHENYLS (PCBS)	Poly chlorinated bipheny Is [PCBs]
METALS (OTHER THAN MERCURY)	Aluminum, total recoverable
METALS (OTHER THAN MERCURY)	Copper, dissolv ed [as Cu]

Has a TMDL been completed for this receiving waterbody? No

## Discharge Point 037: TA-60 Roads and Grounds

# **Applicable Sectors**

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

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

Latitude/Longitude: 35.867859°N, 106.292992°W

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

### **Receiving Water**

GNIS Name:

Waterbody Name: SANDIA CANYON (SIGMA CANYON TO NPDES OUTFALL 001) Listed Water ID: NM-9000.A\_047

Is this receiving water saltwater or freshwater? Freshwater

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

No

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

No

# **Benchmark Monitoring**

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

# Impaired Waters Monitoring

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

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

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

Has a TMDL been completed for this receiving waterbody? No

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

# **Applicable Sectors**

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

	Sector	Subsector	SIC/Activity Code
	<b>D</b> - ASPHALT PAVING AND ROOFING MATERIALS AND LUBRICANTS	D1 - Asphalt Paving and Roofing Materials	2951
	N - SCRAP RECYCLING FACILITIES	N2 - Source-separated Recy cling 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
D	P - LAND TRANSPORTATION AND WAREHOUSING	<b>P1</b> - Railroad Transportation; Local and Highway Passenger Transportation; Motor Freight Transportation and Warehousing; United States Postal Service; Petroleum Bulk Stations and Terminals	4212

Latitude/Longitude: 35.875851°N, 106.327924°W

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

### **Receiving Water**

GNIS Name:

Waterbody Name: SANDIA CANYON (SIGMA CANYON TO NPDES OUTFALL 001) Listed Water ID: NM-9000.A\_047

Is this receiving water saltwater or freshwater? Freshwater

Is this receiving water designated by the state or tribal authority under its antidegradation policy as a Tier 2 (or Tier 2.5) water (water quality exceeds levels necessary to support propagation of fish, shellfish, and wildlife and recreation in and on the water)? No

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

# **Benchmark Monitoring**

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

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

(mg/L)

# Impaired Waters Monitoring

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

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

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

Has a TMDL been completed for this receiving waterbody? No

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

# **Applicable Sectors**

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

	Sector	Subsector	SIC/Activity Code
	<b>D</b> - 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	<b>AA1</b> - Fabricated Metal Products, Except Machinery and Transportation Equipment, and Coating, Engraving, and Allied Services; Jewelry, Silverware, and Plated Ware	3499
	<b>P</b> - LAND TRANSPORTATION AND WAREHOUSING	<b>P1</b> - Railroad Transportation; Local and Highway Passenger Transportation; Motor Freight Transportation and Warehousing; United States Postal Service; Petroleum Bulk Stations and Terminals	4212

Latitude/Longitude: 35.869722°N, 106.300833°W

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

### **Receiving Water**

### GNIS Name:

Waterbody Name: SANDIA CANYON (SIGMA CANYON TO NPDES OUTFALL 001) Listed Water ID: NM-9000.A\_047

Is this receiving water saltwater or freshwater? Freshwater

Is this receiving water designated by the state or tribal authority under its antidegradation policy as a Tier 2 (or Tier 2.5) water (water quality exceeds levels necessary to support propagation of fish, shellfish, and wildlife and recreation in and on the water)? No

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

No

## **Benchmark Monitoring**

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

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

(mg/L)

# Impaired Waters Monitoring

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

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

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

Has a TMDL been completed for this receiving waterbody? No

### Discharge Point 078: TA-16 Stockpile Yard

# **Applicable Sectors**

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

SIC/Activity

	Sector	Subsector	Code
	<b>D</b> - 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	<b>AA1</b> - 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	<b>P1</b> - Railroad Transportation; Local and Highway Passenger Transportation; Motor Freight Transportation and Warehousing; United States Postal Service; Petroleum Bulk Stations and Terminals	4212

Latitude/Longitude: 35.846944°N, 106.344722°W

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

**Receiving Water** 

GNIS Name:

Waterbody Name: CAOON DE VALLE (BELOW LANL GAGE E256)

Listed Water ID: NM-128.A\_01

Is this receiving water saltwater or freshwater? Freshwater

Is this receiving water designated by the state or tribal authority under its antidegradation policy as a Tier 2 (or Tier 2.5) water (water quality exceeds levels necessary to support propagation of fish, shellfish, and wildlife and recreation in and on the water)? No

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

No

# **Benchmark Monitoring**

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

# Impaired Waters Monitoring

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

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

Cause of Impairment Group	ļi.	Pollutant
RADIATION		Alpha, gross adjusted

Has a TMDL been completed for this receiving waterbody? No

# **Applicable Sectors**

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

	Sector	Subsector	SIC/Activity Code
0	D - ASPHALT PAVING AND ROOFING MATERIALS AND LUBRICANTS	D1 - Asphalt Paving and Roofing Materials	2951
0	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	<b>P1</b> - Railroad Transportation; Local and Highway Passenger Transportation; Motor Freight Transportation and Warehousing; United States Postal Service; Petroleum Bulk Stations and Terminals	4212

Latitude/Longitude: 35.85678°N, 106.345631°W

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

### **Receiving Water**

GNIS Name:

Waterbody Name: ARROYO DE LA DELFE (PAJARITO CANYON TO HEADWATERS) Listed Water ID: NM-128.A\_16

Is this receiving water saltwater or freshwater? Freshwater

Is this receiving water designated by the state or tribal authority under its antidegradation policy as a Tier 2 (or Tier 2.5) water (water quality exceeds levels necessary to support propagation of fish, shellfish, and wildlife and recreation in and on the water)? No

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

No

# **Benchmark Monitoring**

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

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

(mg/L)

# Impaired Waters Monitoring

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

Cause of Impairment Group	Pollutant
POLYCHLORINATED BIPHENYLS (PCBS)	Poly chlorinated bipheny Is [PCBs]
METALS (OTHER THAN MERCURY)	Aluminum, total recoverable
METALS (OTHER THAN MERCURY)	Copper, dissolved [as Cu]
RADIATION	Alpha, gross adjusted
Has a TMDL been completed for this receiving waterbody? <u>No</u>	
SWPPP Information	
Has the SWPPP been prepared in advance of filing this NOI, as requir	ed? Yes
SWPPP Contact Information:         First Name       Middle Initial         Last Name:       Holly         Wheeler	
Phone: 5056671312 Ext.:	
Email: hbenson@lanl.gov	
SWPPP Availability: Your current SWPPP or certain information from your SWPPP must be mad options and provide the required information.	e available through one of the following three options. Select one of the
Note: you are not required to post any confidential business informat (https://www.epa.gov/sites/production/files/2021-01/documents/2021_n redacted), but you must clearly identify those portions of the SWPPP	nsgpappendix_adefinitions.pdf)) (such information may be
□ Option 1: Attach a current copy of your SWPPP to this NOI.	
☑ Option 2: Maintain a Current Copy of your SWPPP on an Internet pa	age (Universal Resource Locator or URL).
Provide the web address URL (e.g. http://www.example.com): https://e	prr.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 Species Act (ESA) species and critical habitat(s). Please refer to Append 01/documents/2021_msgpappendix_eprocedures_relating_to_end information regarding your obligations under this permit concerning	dix E (https://www.epa.gov/sites/production/files/2021- dangered_species_protection.pdf) of the 2021 MSGP for important
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?

# 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-10 8, Cons. # 02ENNM00-2014-I-0014, Cons. # 02ENNM00-2015-I-0538

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

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

Name	Uploaded Date	Size
▲ 1999 HMP Concurrence Letter USFWS to DOE.pdf (attachment/712061)	05/19/2021	276.65 KB
2015-0538_USFWS Concurrence Letter_8-2015.pdf (attachment/712062)	05/19/2021	94.97 KB
Concurrence_8DEC2013_Biological Assessment of Jemez Mtn Salamander site Plan (2).pdf (attachment/712063)	05/19/2021	239.87 KB

Historic Preservation: Criterion B

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

- State Historic Preservation Office (SHPO) (https://www.nps.gov/subjects/nationalregister/state-historic-preservation-offices.htm)
- Tribal Historic Preservation Office (THPO) (https://www.nps.gov/history/tribes/Tribal\_Historic\_Preservation\_Officers\_Program.htm)

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

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

Will you be constructing or installing any <u>new</u> stormwater control measures? Yes

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

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

Yes

You are eligible under Criterion B.

Certification Information

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

Certified By: Jennifer payne

Certifier Title: Division Leader

Certifier Email: jpay ne@lanl.gov

Certified On: 05/26/2021 5:41 PM ET



# United States Department of the Interior

### FISH AND WILDLIFE SERVICE

New Mexico Ecological Services Field Office 2105 Osuna NE Albuquerque, New Mexico 87113 Phone: (505) 346-2525 Fax: (505) 346-2542

February 12, 1999

Cons. #2-22-98-I-336 Cons. #2-22-95-I-108

David A. Gurule, Acting Area Manager Department of Energy Albuquerque Operations Office Los Alamos Area Office Los Alamos, New Mexico 87545

Dear Mr. Gurule:

This responds to your letter dated August 6, 1998, requesting our review and concurrence with the Threatened and Endangered Species Habitat Management Plan (HMP) for Los Alamos National Laboratory (LANL). The HMP was prepared by the LANL Ecology Group for the Department of Energy (DOE) as part of the Dual-Axis Radiographic Hydrodynamics Test Facility (DAHRT) Mitigation Action Plan. The U.S. Fish and Wildlife Service (Service) has worked closely with LANL in the development of the HMP. As a result of discussions and meetings following the August 6, 1998, submittal, additional information/clarification was provided via letters, updated Biological Evaluations/HMPs, and e-mail messages, dated September 8, October 20, November 25, and December 9, 1998, and January 4, January 22, and January 29, 1999. The purpose of the HMP is to provide for the protection of threatened and endangered species and their habitats on LANL. The HMP consists of three components that must be used together to assure proper management of the threatened and endangered species: an Overview Document, Site Plans, and Monitoring Plans. It was determined that if all the restrictions and protective measures outlined in the HMP are strictly followed, the implementation of this HMP may affect, but is not likely to adversely affect the Mexican spotted owl (owl), peregrine falcon (falcon), bald eagle (eagle), and southwestern willow flycatcher (flycatcher). The Biological Evaluation (BE) also considered potential impacts on the black-footed ferret, arctic peregrine falcon, and whooping crane. It was determined that there would be no effect on these species because of a lack of habitat.

Property at LANL varies from remote isolation to heavily developed and/or industrialized. The Service agrees, as stated in the Overview document, that a number of activities at LANL have the potential to adversely impact threatened and endangered species. Many of the industrial processes used at LANL have involved hazardous and radioactive materials. These materials as well as remediation of potential release sites may disturb

#### David A. Gurule, Acting Area Manager

or reduce population viability of threatened and endangered species. In addition, other potential sources of disturbance or habitat alterations are possible as a result of the residential and commercial development in the LANL area. While the HMP identifies potential sources of adverse effects, this consultation does not necessarily cover all of those impacts. The Service does not anticipate that DOE will be able to plan all of its operations at LANL in accordance with this plan. The direct effects of most actions can be minimized through implementation of the HMP; however, a more thorough assessment is necessary to adequately evaluate the indirect and cumulative impacts of all actions that are funded, authorized, and permitted by DOE, as well as potential impacts from interrelated and interdependent actions. It was agreed (by Service, DOE, and LANL personnel) that consultation concerning ongoing LANL operations would be handled separately from the HMP, under the consultation on the Site-Wide EIS.

The Site Plans identify the particular areas of LANL where operations might impact known occupied or potential habitat for the flycatcher, eagle, falcon, and owl. Suitable habitat for these species, along with protective buffer areas surrounding their habitat, have been designated as Areas of Environmental Interest (AEIs). For the flycatcher, one AEI was established based on an observation of a migrant male flycatcher in 1997. The AEI is located in the Pajarito wetland area and includes the best available riparian habitat. For eagles, one AEI has been identified for wintering habitat that exists along the Rio Grande on the eastern edge of LANL. It is based on the locations of known and potential roost sites. For the falcon, four AEIs have been identified. They consist of the habitat previously identified under the 1985 interagency agreement. These areas are centered on deep canyons on the eastern side of LANL or on adjacent lands. LANL has agreed to implement the recommended management guidelines, which utilize four management zones (A through D) to protect nesting peregrine falcons from disturbance. For the owl, six AEIs have been identified, but only one of these sites is known to be occupied. These AEIs are based on and located in canyons that have been defined as suitable nest/roost habitat.

The AEI management section of each Site Plan provides guidelines for LANL operations to reduce or eliminate threats to each species. The primary threats on LANL property are (1) impacts on habitat quality from LANL operations and (2) disturbance of nesting or roosting birds. The site plans provide information on their location and guidelines for their management. The AEI Site Plans consist of a species description, descriptions of the AEIs for the species, descriptions of current impacts in the AEIs, management plans that describe allowable activities within core and buffer areas under the guidelines of the sites plan and protective measures. Activities discussed in the site plans include day to day activities, such as access into an AEI, as well as long-term projects, such as levels of habitat alteration in the buffer area of an AEI. Restrictions will be implemented on activities that could cause disturbance (people, vehicles and machinery, aircraft, light production, and noise) within occupied AEIs. The location of a potential disturbance activity within the AEI, the occupancy status of the AEI, and the type of activity all affect whether or not an activity is allowable. Habitat alterations are always restricted in core areas, but a limited amount of future development is allowed in currently undeveloped DOE-controlled buffer areas under the guidelines of this site plan as long

### David A. Gurule, Acting Area Manager

as it does not alter habitat in the undeveloped AEI (including light and noise guidelines). The purpose of buffer areas is to protect core areas from undue disturbance or habitat alteration or habitat degradation. Each AEI is specific to the situation or circumstances of the site it covers. According to the HMP, development beyond the cap established for each AEI, or greater than 2 hectares in size, including the developed-area border, requires independent review for ESA compliance.

Varying amounts of development and/or ongoing activities exist in the cores and buffers of each AEI. These developments may include residential, commercial, and light industrial areas, as well as roads and utility corridors. Existing/ongoing activities may include periodic scientific surveys, power line maintenance, recreational use, residential development, ER Program activities, and possible use of a firing site. Potential disturbance may be associated with automobile and truck traffic, construction activities, a live-fire range, explosives testing, and aircraft traffic at the County airport. Ongoing activities in developed areas constitute a baseline condition for the AEIs and are not restricted. New activities including further development within already existing developed areas are not restricted unless they impact undeveloped portions of an AEI core. If a proposed action within a developed area does not meet site plan guidelines, it must be individually reviewed for ESA compliance.

Some activities such as utility corridor maintenance, fuels management, and a limited amount of development are allowed in each AEI (as described in the HMP). The potential impacts of these activities are considered to be insignificant or discountable because they will occur in habitat that has been previously disturbed or is of poor quality due to its size or proximity to already developed areas. It is our understanding (based on the January 22, 1999, e-mail response from Terry Foxx) that the fuels management activities within the owl AEIs will only consist of ongoing and proposed fire protection activities around existing facilities (e.g. thinning around buildings) or those activities that are already covered under the Dome Fire Emergency BA. The other fire management activities mentioned in the HMP will go through the ESH-ID process and further consultation with the Service when a fire management plan is completed in the future.

In general, activities that detrimentally alter habitat in an AEI or would cause unacceptable disturbance to the species inhabiting the AEI are not allowed under the guidelines of a Site Plan. The Site Plans are designed to minimize impacts to threatened and endangered species and their habitat. The protective measures and restrictions outlined in the Site Plans were developed using the best available data, in cooperation with Service biologists.

The U.S. Fish and Wildlife Service concurs with DOE's determination that implementation of LANL's HMP may affect, but is not likely to adversely affect the Mexican spotted owl, American peregrine falcon, bald eagle, and southwestern willow flycatcher based on the protective measures described in the BA and HMP. If all the restrictions and protective measures outlined in the HMP are strictly followed, potential impacts on owls, falcons, eagles, and flycatchers are expected to be insignificant or

#### David A. Gurule, Acting Area Manager

discountable for the following reasons: 1) appropriate seasonal restrictions will be implemented to avoid disturbance to potentially breeding flycatchers, peregrines, and owls and wintering eagles; 2) no nest or roost habitat for any listed species will be altered; 3) the total amount of potential foraging habitat that could be impacted within each species home ranges is expected to be insignificant compared to the amount of available foraging habitat throughout the area; 4) monitoring plans have been developed as an integral part of the HMP; and 5) a mechanism for incorporating necessary technical and regulatory changes and updating the HMP has been included (page 32 of the Overview Document).

In future communications regarding this project, please refer to Consultation #2-22-98-I-336. If we can be of further assistance, please contact Carol Torrez of my staff at (505) 346-2525, ext. 115.

Sincerely,

lennifer Fowler-Props Field Supervisor

cc:

Teralene Foxx, Project Manager, Ecology Group, Los Alamos National Laboratory, P.O. Box 1663, Mail Stop M887, Los Alamos, New Mexico 87545

Elizabeth Withers, U.S. Department of Energy, Los Alamos Area Office, 35<sup>th</sup> Street, Los Alamos, New Mexico

Field Supervisor, Ecological Services, U.S. Fish and Wildlife Service, Phoenix, Arizona



# United States Department of the Interior

FISH AND WILDLIFE SERVICE New Mexico Ecological Services Field Office 2105 Osuna NE Albuquerque, New Mexico 87113 Phone: (505) 346-2525 Fax: (505) 346-2542

December 9, 2013

Cons. #02ENNM00-2014-I-0014

Geoffrey L. Beausoleil, Acting Manager National Nuclear Security Administration, Los Alamos Field Office Department of Energy Los Alamos, New Mexico 87544

Dear Mr. Beausoleil:

Thank you for your biological assessment entitled, "Biological Assessment of the Effects of Implementing the Jemez Mountains Salamander Site Plan on Federally Listed Threatened and Endangered Species at Los Alamos National Laboratory" (BA); the request for informal consultation and conferencing received on July 25, 2013 and supplemental information supplied in the "Jemez Mountains Salamander (Plethodon neomexicanus) Los Alamos National Laboratory (LANL) Site Plan" (Site Plan); and emails dated November 19 and December 3, 2013. The Department of Energy (DOE) requested concurrence with the determination of effects for the endangered Jemez Mountains salamander (Plethodon neomexicanus) (salamander) pursuant to Section 7(a)(2) of the Endangered Species Act of 1973 (ESA), as amended (16 U.S.C. § 1531 et seq.). Your proposed action consists of implementing the Site Plan, and includes of the incorporation of this Site Plan into LANL's Habitat Management Plan (HMP). The HMP was consulted upon in 1999 (Consultation #2-22-981-336) as the primary mechanism to ensure compliance with the ESA at LANL. The actions described in the Site Plan and analyzed in the BA, and supplemental emails are hereby incorporated by reference. You determined that implementing the Site Plan "may affect, is not likely to adversely affect" the salamander, and includes placing restrictions on certain types of work in areas identified as core habitat for the salamander on LANL property with the purpose of ensuring that effects to the salamander from those actions identified in the Site Plan are insignificant and discountable.

The Site Plan does not include any areas within designated salamander critical habitat, indicating that no critical habitat will be affected. The Site Plan has modeled and field validated the model to identify the areas on LANL property with the highest potential to be occupied by salamanders based on habitat features for the salamander. Each area identified by the modeling is termed "Area of Environmental Interest" (AEI) and consists of a "core area" and a "buffer area". The core area habitat is defined as suitable habitat where the salamander occurs or may occur at LANL. The core area habitat consists of sections of north-facing slope that contain the required

### Geoffrey L. Beausoleil, Acting Manager

micro-habitat to support salamanders. The buffer area is 328 feet (100 meters) wide extending outward from the edge of the core area. Only the Los Alamos Canyon AEI is known to be occupied based on surveys. Surveys for the salamander are known to have a very low detection rate for occupied areas and DOE has assumed that all AEIs at LANL are occupied at all times by the salamander.

Within the Site Plan, DOE has assessed activities that could cause habitat alteration and includes any action that alters the soil structure, vegetative components necessary to the species, water quality, or hydrology in undeveloped areas of an AEI. If an activity were to take place outside of the AEI the activity will be assessed if it will have effects inside the AEI core. Within the core areas, only activities specified within the Site Plan and those that have no effect in the core areas (e.g. no habitat alterations or effects within the core areas) will be conducted without further consultation with the Service. Habitat alterations also include soil pits for soil samples deeper than 6 inches (15.2 centimeters) using either hand or mechanized augers. Within the Site Plan, DOE is proposing fuels management practices to reduce wildfire risk and maintenance of utility corridors within the AEIs. The likelihood that salamanders may be affected by the actions in the Site Plan is very low. To ensure that effects to the salamander are insignificant and discountable, the Site Plan incorporates the following conservation measures as restrictions to the identified work:

Fuels Management Practices to Reduce Wildfire Risk

- a. Within undeveloped core areas, thinning trees to a level of 80% canopy cover or higher may occur; tree thinning below 80% canopy cover is not part of the action under this consultation.
- b. Large logs on the ground will be left in place and not chipped.
- c. Large trees that are felled will be left as large logs on the ground
- d. When appropriate, smaller trees and understory shrubs that may be thinned will be dispersed and left on-site to aid in soil moisture retention.
- e. In buffer areas, thinning of trees may occur to the current LANL-approved prescription level; clear-cutting will not occur.
- f. Thinning activities will not occur during the rainy season when salamanders are surface active, between July 1 – October 31. Thinning activities may occur earlier in October if freezing temperatures are present.
- g. In the unlikely event that a salamander is observed surface active during thinning activities, all activities shall cease, and the Service will be notified.

### Utility Corridors

- a. Cutting trees that threaten power lines may occur within 26 feet (8 meters) of either side of an existing utility line at LANL
- b. New utility lines and utility lines requiring clearance of a right-of-way greater than 52 feet (16 meters) total in core habitat is not part of the action under this consultation.

### Geoffrey L. Beausoleil, Acting Manager

Habitat alterations other than the fuels management practices and utility corridor maintenance described above will not occur in undeveloped core areas under the guidelines of the Site Plan or this consultation. The Service concurs with DOE's determination regarding the salamander for the following reasons:

Within the Site Plan, DOE has placed the above detailed restrictions to ensure that any effects to the salamander and its habitat remain insignificant and discountable. Canopy cover will remain at 80% or greater in undeveloped core areas and fire management actions will occur outside of the salamander surface activity period. Maintaining utility line corridors in areas with existing infrastructure (the utility lines) by removing individual hazard trees is not expected to have any measurable effect on salamanders or their potential habitat. Consequently, we concur that potential effects to the salamander from the proposed action will be insignificant and discountable.

This concludes section 7 consultation regarding the proposed action. If monitoring or other information results in modification or the inability to complete all aspects of the proposed action, consultation should be reinitiated. Please contact the Service if: 1) future surveys detect listed, proposed or candidate species in habitats where they have not been previously observed; 2) the proposed action changes or new information reveals effects of the proposal to listed species that have not been considered in this analysis; or 3) a new species is listed or critical habitat designated that may be affected by the action.

Thank you for your concern for endangered and threatened species and New Mexico's wildlife habitats. In future correspondence regarding this project, please refer to consultation #02ENNM00-2014-I-0014. If you have any questions, please contact Michelle Christman of my staff at (505) 761-4715.

Sincerely,

Wally Murphy Field Supervisor

cc:

Wildlife Biologist, Cuba Ranger District, Cuba, NM (Attn: Ramon Borrego) Director, New Mexico Department of Game and Fish, Santa Fe, New Mexico



# United States Department of the Interior



# FISH AND WILDLIFE SERVICE

New Mexico Ecological Services Field Office 2105 Osuna Road NE Albuquerque, New Mexico 87113 Telephone 505-346-2525 Fax 505-346-2542 www.fws.gov/southwest/es/newmexico/

August 6, 2015

Cons. # 02ENNM00-2015-I-0538

Kimberly Davis Lebak, Manager Department of Energy National Nuclear Security Administration Los Alamos Field Office Los Alamos, New Mexico 87544

Dear Ms. Lebak:

This responds to your July 9, 2015, cover letter and biological assessment (BA) requesting informal consultation for the addition of the Western distinct population segment of the yellowbilled cuckoo (*Coccyzus americanus occidentalis*) (cuckoo) and the New Mexico meadow jumping mouse (*Zapus hudsonius luteus*) (jumping mouse) to the Los Alamos National Laboratory Habitat Management Plan, Los Alamos, New Mexico. As documented in your BA, which is hereby incorporated by reference, we find that your proposed action will have insignificant and discountable effects to the cuckoo and the jumping mouse. Therefore, the Service concurs with your determination of "may affect, is not likely to adversely affect" for the cuckoo and the jumping mouse.

This concludes section 7 consultation regarding the proposed action. If monitoring or other information results in modification or the inability to complete all aspects of the proposed action, consultation should be reinitiated. Please contact the Service if: 1) future surveys detect listed, proposed or candidate species in habitats where they have not been previously observed; 2) the proposed action changes or new information reveals effects of the proposal to listed species that have not been considered in this analysis; or 3) a new species is listed or critical habitat designated that may be affected by the action.

Kimberly Davis Lebak, Manager

Thank you for your concern for endangered species and New Mexico's wildlife habitats. If you have any questions, please contact Eric Hein of my staff at the letterhead address or at (505) 761-4735.

Sincerely,

for Wally Murphy Field Supervisor

cc:

Director, New Mexico Department of Game and Fish, Santa Fe, New Mexico

Date	Plan Section	Reason for Amendment	Amendment
Jan 2019	All	New MSGP Plan for new	New MSGP Plan for Triad, LLC (replacing
		Laboratory Contract.	LANS, LLC.
Jan 2020	All	Implementation of the new	Inserted new template language to
		SWPPP template as required	standardize all MSGP SWPPPs and
		by EPC-CP-QP-2110, MSGP	inserted all required documentation for
		Stormwater Pollution	the yearly revision.
		Prevention Plan Preparation	
		and Maintenance. Also	
		included all inspections,	
		assessments and reports	
		required for the yearly	
		update.	
Jan 2021	All	Included all inspections,	Inserted all required documentation for
		assessments and reports	the yearly revision. Included new
		required for the yearly	stormwater controls installed in 2020.
		update.	
May	All	The 2021 MSGP was	Plan was revised to reflect new
2021		published on January 15,	permit requirements.
		2021, and became effective	
		on March 1, 2021. The new	
		permit requires a SWPPP	
		update.	
January	attachments	Included all inspections,	New procedures were added, new
-	attachinelits	assessments and reports	,
2022		required for the yearly	training briefing, all required reports
		update.	added.
		upuale.	

### ATTACHMENT 2: SWPPP AMENDMENTS

## ATTACHMENT 3: CERTIFICATION OF NO UNAUTHORIZED STORMWATER DISCHARGES

### Unauthorized Non-Storm Water Discharge Assessment and Certification

Facility: TA-03-00	38 Metal Fab	Shop & Metals Fabrication Shop	Satellite Storage Area	(Sigma Mesa)	
Outfalls (including SIOs or Other Onsite Drainag Points Observed During the Assessment	e Non-Sto	d Potential Sources of Unauthorized orm Water Discharge (if applicable)	Description of Assessment Criterion Used	1	ed Actions to Control or the Discharge
Monitored Outfall 076	None		Visual evaluation	None	
Monitored Outfall 077	None		Visual evaluation	None	
Assessor:					
Print Name: Jacob Knight		Signature:	Title: DEP		Date Assessed:
Authorized Signatory: I c that qualified personnel proper responsible for gathering the ir	ly gathered and ev formation, the info	ty of law that this document and all attachments valuated the information contained therein. Bas ormation contained is, to the best of my knowle ility of fine and imprisonment for knowing violat	ed on my inquiry of the person o dge and belief, true, accurate, ar	r persons who manage the syste	m. or those persons directly
Print Name:	¥	Signature:	Title:		Date Certified:

\*SIO = Substantially Identical Outfall

### ATTACHMENT 4: DULY AUTHORIZED SIGNATORY MEMORANDUM



# **Environmental Protection & Compliance**

*Division* Los Alamos National Laboratory PO Box 1663, K490 Los Alamos, NM 87545 505-667-0666

Symbol: EPC-DO: 18-453 LAUR: 18-31574 Date: DEC 1 1 2018

Ms. Anne L. Idsal, Regional Administrator U.S. Environmental Protection Agency, Region 6 1445 Ross Avenue, Suite 1200 Mail Code: 6RA Dallas, TX 75202-2733

### Subject: Notification of Triad National Security, LLC, Signatory Officials and Authorized Representatives for NPDES Permits

Dear Ms. Idsal:

The purpose of this letter is to provide an update to the U. S. Environmental Protection Agency (EPA) Region 6 on the Triad National Security, LLC delegation of authority for signature of documents associated with the various Los Alamos National Laboratory (LANL) NPDES Permits, pursuant to 40 CFR 122.22(c). This letter supersedes and replaces the signatory authority letter dated March 14, 2018 (ADESH: 18-017).

The positions of Associate Laboratory Director of Environment, Safety, Health & Quality and Safeguards & Security (ESHQSS), and Division Leader of the Environmental Protection & 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 Notice of Intents (NOIs)) required under the LANL NPDES Industrial Point Source Outfall Permit (Permit No. NM0028355), the NPDES Storm Water Construction General Permit, the NPDES Multi-Sector General Permit (Permit No. NMR050013), and the NPDES Pesticide General Permit (Permit No. NMG87B113).

The following positions are hereby designated as authorized representatives under 40 CFR 122.22(b) to sign reports, Storm Water Pollution Prevention Plans, Discharge Monitoring Reports, Pesticide Discharge Management Plans, and any other compliance documentation required by the permits:



An Equal Opportunity Employer / Managed by Triad National Security, LLC for the U.S. Department of Energy's NNSA

### NPDES Industrial Point Source Outfall Permit (No. NM0028355)

- Positions listed as primary signatory officials above.
- Group Leader or Team Leaders within the Environmental Compliance Programs Group.
- Responsible Facility Operations Director (FOD).

### **NPDES Construction General Permit:**

- Positions listed as primary signatory officials above.
- Group Leader or Team Leaders within the Environmental Compliance Programs Group.
- Cognizant Project Manager, Construction Manager, or Subcontractor Technical Representative for the regulated construction activity.

## NPDES Multi-Sector General Permit (ID No. NMR053195)

- Positions listed as primary signatory officials above.
- Group Leader or Team Leaders within the Environmental Compliance Programs Group.
- Division Leader, Deputy Division Leader, or Group Leader of the LANL division responsible for the overall operation of the regulated facility or activity.
- Responsible FOD; Deputy FOD, Operations Manager; or Deployed Environment, Safety, & Health Manager responsible for the overall operation of the regulated facility or activity.

## NPDES Pesticide General Permit (No. NM687A041)

- Positions listed as primary signatory officials above.
- Group Leader or Team Leaders within the Environmental Compliance Programs Group.

If you have questions, please contact me at (505) 667-7269 or at etorres@lanl.gov.

Sincerely

Enrique Torres Division Leader Environmental Protection & Compliance Division

ET/TWL/MTS:jdm



### EPC-DO: 18-453 Ms. Anne L. Idsal

# DEC 1 1 2018

Page 3

Attachment(s): None.

Copy: Nancy Williams, USEPA, Region 6, williams.nancy@epa.gov, (E-File) Brent E. Larsen, USEPA, Region 6, Larsen.brent@epa.gov, (E-File) Robert Houston, USEPA, Region 6, Houston.robert@epa.gov, (E-File) Sarah Holcomb, NMED, sarah.holcomb@state.nm.us, (E-File) Karen E. Armijo, LASO-MA-LS, Karen.armijo@nnsa.doe.gov, (E-File) Jody Pugh, NA-LA, jody.pugh@nnsa.doe.gov, (E-File) Michael W. Hazen, ESHQSS, mhazen@lanl.gov, (E-File) William R. Mairson, ESHQSS, wrmairson@lanl.gov, (E-File) Enrique Torres, EPC-DO, etorres@lanl.gov, (E-File) Taunia Van Valkenburg, EPC-CP, tauniav@lanl.gov, (E-File) Michael T. Saladen, EPC-CP, saladen@lanl.gov, (E-File) Terrill W. Lemke, EPC-CP, tlemke@lanl.gov, (E-File) Tim Dolan, GC-ESH, tdolan@lanl.gov, (E-File) emla.docs@em.doe.gov, (E-File) locatesteam@lanl.gov, (E-File) epc-correspondence@lanl.gov, (E-File) adesh-records@lanl.gov, (E-File)



### ATTACHMENT 5: DISCHARGE MONITORING REPORTS

Date/Time:

Permit				_										_										
Permit #:	:	NMR050013	3	Pe	ermittee:		Triad	Natior	nal Security	LLC				Fa	cility:		LOS AL/	AMOS N	ATION	AL LABORATO	RY			
Major:		No		Pe				PO Box 1663 Los Alamos, NM 87545						Fa					OX 1663 ALAMOS, NM 87545					
Permittee		076 External Out	tfall	Di				<b>076-11</b> Fabricated Metal Products, except Coating																
Report D	ates & Status			1						,		5												
-		From 07/01	/21 to 09/30/21	DI	MR Due Date	e:	11/30	)/21						St	atus:		NetDMR	Validat	ed					
Consider	rations for Form (	Completion																						
Principal	I Executive Office	r																						
First Nan	ne:			Ti	tle:									Те	lephone	<b>e</b> :								
Last Nam	ne:																							
No Data	Indicator (NODI)																							
Form NO																								
Code	Parameter	2	Monitoring Location	on Season #	# Param. NODI		Qualifier		tity or Loadi	· · · · ·	l Inits (	Qualifier 1	Value 1			oncentrati		Units	# of Ex	. Frequency of An	alysis Sa	mple Type		
0000		•				Sample	quantor	1 Value		Fundo 2	onnto	quamori	Value 1	Qualifier 2	Fundo 2		192.0	28 - ug/L		01/90 - Quarterly	GR	- GRAB		
01104	Aluminum, total	recoverable	1 - Effluent Gross	<b>0</b>		Permit Req.									4	:=	1100.0 MAXIMUM	28 - ug/L	0	01/90 - Quarterly	GR	- GRAB		
						Value NODI																		
v						Sample Permit Req.											0.935 0.68 MAXIMUM	19 - mg/L 19 - mg/L		01/90 - Quarterly 01/90 - Quarterly		- GRAB		
<b>X</b> 51450	Nitrite Plus Nitra	te Total	1 - Effluent Gross	6 0		Value NODI												io ing/2	1	o noo additiony		GIUID		
Submiss	ion Note																							
	neter row does not	contain anv	values for the San	nple nor E	ffluent Tradir	na. then nor	ne of the	follow	ina fields w	/ill be su	ıbmitt	ed for th	at row:	Units. Nu	mber of	Excursic	ons. Frequency of	of Analvs	is. and	Sample Type.				
	ck Errors					<u>,</u>			9					,					.,					
	Parameter																							
Code	Name	Moni	toring Location		Field			Туре							Descri	ption					Ackno	wledge		
51450 N	Nitrite Plus Nitrate To	otal 1 - Effl	uent Gross	Quality or 0	Concentration	Sample Valu	ue 3	Soft	The provid	led samp	ole val	ue is outs	ide the j	permit limi	t. Please	verify that	at the value you ha	ave provid	led is c	orrect.	Y	es		
Commen	nts																							
LA-UR-21																								
Attachme																								
No attachme	ents.																							
-	ast Saved By																							
Triad Nat	tional Security LL	С																						
User:				2lanl.gov																				
Name:				Dale																				
E-Mail:					00 (Time 7		<b>`</b>																	
Date/Time			2021-	11-18 10:	:30 (Time Zo	one: -06:00	)																	
	ast Signed By		терр	ILLLEMK	=																			
User: Name:				Lemke	-																			
E-Mail:				e@lanl.gov	v																			
			uonike	Sium.go																				

2021-11-18 11:18 (Time Zone: -06:00)

Permit					_																		
Permit a	#:	NMR	050013		Perm	nittee:		Triad I	National S	Security	LLC			Facil	lity:			LOS AI	AMOS	NATION	IAL LABORAT	ORY	
Major:		No			Perm	nittee Addres	s:		ox 1663 Iamos, NI	M 87545	5			Facil	lity Loc	ation:		PO BO LOS AI	X 1663 _AMOS,	NM 87	545		
Permitte	ed Feature:	076 Exteri	nal Outfall		Discl	harge:		<b>076-Z</b> Zinc: \	<b>C</b> Water Ha	rdness {	50-74.99	) mg/l											
Report	Dates & Status																						
Monitor	ing Period:	From	07/01/21 to 09/30	0/21	DMR	Due Date:		11/30/	/21					Statu	us:			NetDM	R Valida	ated			
Conside	erations for Form	Сотр	letion																				
Principa	al Executive Offic	ər																					
First Na	ime:				Title:	:								Tele	phone:								
Last Na	me:																						
No Data	a Indicator (NODI)																						
Form N	ODI:																						
	Parameter		Monitoring Location	Season #	Param. NOI	DI		Quantity	y or Loadin	ng				Qualit	y or Con	centratio	on			# of Ex	. Frequency of A	nalysis	Sample Type
Code	Name						Qualifier 1	Value 1	Qualifier 2	Value 2 L	Jnits Qua	lifier 1 Va	alue 1 Qu	ualifier 2 V	/alue 2 Q			Value 3	Units				
						Sample Permit Req.									<:		40.5	0 MAXIMU	28 - ug/ M 28 - ug/		01/90 - Quarterly 01/90 - Quarterly		GR - GRAB GR - GRAB
01090	Zinc, dissolved [as	7n1	1 - Effluent Gross	0		r ennit iveq.									~	-	104.		w 20 - ug/	L 0	01/30 - Quarterry		OIX - OIXAD
	L	211		Ū		Value NODI														-			
		211				Value NODI																	
Submis	sion Note	-			le nor Efflu		then none	e of the	following	fields w	vill be su	bmitted	for that	t row: Un	its. Nur				requenc	v of An	alvsis, and San	vie Tv	pe.
Submis If a para	s <i>ion Note</i> meter row does no	-			le nor Efflu		then none	e of the	following	fields w	vill be su	bmitted	for that	t row: Un	iits, Nur				requenc	y of Ana	alysis, and San	nple Ty	pe.
Submis If a para Edit Ch	sion Note meter row does no eck Errors	-			le nor Efflu		then none	e of the	following	fields w	vill be su	bmitted	for that	t row: Un	iits, Nur				requenc	y of Ana	alysis, and San	nple Ty	pe.
Submis If a para Edit Ch No error	sion Note meter row does no eck Errors rs.	-			le nor Efflu		then none	e of the	following	fields w	vill be su	bmitted 1	for that	t row: Un	iits, Nur				requenc	y of Ana	alysis, and San	nple Ty	De.
Submis If a para Edit Ch No error Comme	sion Note meter row does no eck Errors rs. ents	-			le nor Efflu		then none	e of the	following	fields w	vill be su	bmitted 1	for that	t row: Un	iits, Nur				requenc	y of An	alysis, and San	nple Ty	pe.
Submis If a para Edit Ch No error Comme	sion Note meter row does no eck Errors s. ents 21-31445	-			le nor Efflu		then none	e of the	following	fields w	vill be su	bmitted	for that	t row: Un	iits, Nur				requenc	y of Ana	alysis, and San	nple Ty	De.
Submis If a para Edit Ch No error Comme LA-UR-2	sion Note meter row does no eck Errors s. ents 21-31445 ments	-			le nor Efflu		then none	e of the	following	fields w	vill be su	bmitted 1	for that	t row: Un	iits, Nur				requenc	y of Ana	alysis, and San	nple Tyj	De.
Submiss If a para Edit Ch No error Comme LA-UR-2 Attachn No attachn	sion Note meter row does no eck Errors s. ents 21-31445 ments	-			le nor Efflu		then none	e of the	following	fields w	vill be su	bmitted 1	for that	t row: Un	its, Nur				requenc	y of Ana	alysis, and San	nple Ty	pe.
Submiss If a para Edit Ch No error Comme LA-UR-2 Attachr No attachr Report	sion Note meter row does no eck Errors s. ents 21-31445 ments ments.	t conta			le nor Efflu		then none	e of the	following	fields w	vill be su	bmitted <sup>1</sup>	for that	t row: Un	its, Nur				requenc	y of An	alysis, and San	nple Tyj	De.
Submiss If a para Edit Ch No error Comme LA-UR-2 Attachr No attachr Report	sion Note meter row does no eck Errors rs. ents 21-31445 ments ments. Last Saved By	t conta	in any values for t				then none	e of the	following	fields w	vill be su	bmitted -	for that	t row: Un	iits, Nur				requenc	y of Ana	alysis, and San	nple Ty	De.
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Permit																					
Permit #:	NMR050	013	Pe	ermittee:		Triad I	Nationa	I Security	LLC				Fa	cility:		LOS AL	AMOS N	ATION	AL LABORATOF	ł۲	
Major:	No		Pe	ermittee Add	dress:		ox 1663 Iamos, I	NM 87545	5				Fa	cility L	ocation:		( 1663 AMOS, N	M 8754	45		
Permitted	I Feature: 077 External	Outfall	Di	scharge:		<b>077-1</b> Fabric		etal Produ	icts, exc	cept C	oating										
Report Da	ates & Status		_																		
Monitoring	g Period: From 07	/01/21 to 09/30/21	D	MR Due Date	e:	11/30/	/21						Sta	atus:		NetDM	R Validate	ed			
Considera	ations for Form Complet	on																			
Principal	Executive Officer																				
First Nam	ie:		Tit	tle:									Те	lephon	e:						
Last Name	e:												•								
No Data Ir	ndicator (NODI)		•																		
Form NOE	DI:																				
	Parameter	Monitoring Location	Season #	# Param. NODI				y or Loadir	-						oncentrati			# of Ex.	Frequency of Ana	lysis Sa	mple Type
Code	Name					Qualifier 1	Value 1	Qualifier 2	Value 2 L	Jnits Q	ualifier 1	Value 1	Qualifier 2	Value 2	Qualifier 3		Units			01	0.0.0.0
v					Sample Permit Req.										<=	2110.0 1100.0 MAXIMUN	28 - ug/L 1 28 - ug/l		01/90 - Quarterly 01/90 - Quarterly		R - GRAB
<b>X</b> 01104	Aluminum, total recovera	ble 1 - Effluent Gross	0		Value NODI												. 20 ug/2	1	circo quantony		
					Sample				_	_						1.31	19 - mg/L		01/90 - Quarterly	GE	R - GRAB
<b>X</b> 51450	Nitrite Plus Nitrate Total	1 - Effluent Gross	0		Permit Req.										<=	0.68 MAXIMUM	19 mg/L		01/90 - Quarterly		R - GRAB
A 51450	Withe Plus Withde Pola		Ū		Value NODI																
Submissi	on Note																				
	eter row does not contain a	any values for the Sam	ple nor E	ffluent Tradii	na. then no	ne of the t	followin	a fields w	ill be sul	bmitte	d for tha	t row:	Units. Nur	nber of	Excursio	ons. Frequency	of Analvs	is. and	Sample Type.		
Edit Chec								9					,			,					
	Parameter																				
		Monitoring Location		Fi	ield		Туре							Desc	cription					Ackno	wledge

		Monitoring Location	Field	Туре	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
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
Comme	nts					
LA-UR-2	21-31445					
Attachm	nents					
No attachm	nents.					
Report l	Last Saved By					
Triad Na	ational Security LLC					
User:		leslie@la	anl.gov			
Name:		Leslie	Dale			
E-Mail:		leslie@la	anl.gov			
Date/Tim	ne:	2021-11	-18 10:30 (Time Zone: -06:00)			
Report l	Last Signed By					
User:		TERRIL	LLEMKE			
Name:		Terrill	Lemke			
E-Mail:		tlemke@	lanl.gov			
Date/Tim	ne:	2021-11	-18 11:18 (Time Zone: -06:00)			

Permit																							
Permit	#:	NMR	050013		Permit	ttee:		Triad	National S	Security	y LL	.C		Fac	ility:		LOS AL	AMOS N	ATION	AL LABORATORY			
Major:		No			Permit	ttee Addres	s:		ox 1663 Iamos, NI	M 8754	5			Fac	ility Lo	cation:		PO BOX 1663 LOS ALAMOS, NM 87545					
Permitt	ed Feature:	077 Exter	nal Outfall		Discha	Discharge:			2 <b>C</b> Water Ha	rdness	50-7	74.99 mg/l											
Report	Dates & Status				•																		
Monito	ing Period:	From	07/01/21 to 09/30	/21	DMR D	Due Date:		11/30	/21					Stat	tus:		NetDMF	Validat	ed				
Consid	erations for Form	Сотр	letion											-									
Princip	al Executive Office	er																					
First Na	ime:				Title:									Tele	ephone	:							
Last Na	me:																						
No Date	a Indicator (NODI)																						
Form N	ODI:																						
	Parameter		Monitoring Location	Season # F	Param. NODI				y or Loadir	-					-	ncentratio			# of Ex.	Frequency of Analysis	Sample Type		
Code	Name					C Sample	Qualifier 1	Value 1	Qualifier 2	Value 2	Unit	s Qualifier 1	Value 1	Qualifier 2	Value 2		Value 3 3.57	Units 28 - ug/L		01/90 - Quarterly	GR - GRAB		
01000	Zinc, dissolved [as	7-1	1 - Effluent Gross	0		Permit Req.											3.57 104.0 MAXIMUN				GR - GRAB GR - GRAB		
01090	Zinc, dissolved [as	znj	1 - Elliuent Gross	0		Value NODI													0	,			
Submis	sion Note																						
		t conta	in any values for th	he Sample	e nor Efflue	ent Trading, t	hen non	e of the	following	fields v	will k	be submitte	ed for th	nat row: U	nits, Nu	Imber of I	Excursions, Fr	equency	of Ana	lysis, and Sample Ty	/pe.		
	eck Errors		,	·		0,			0						,		,	. ,					
No erro																							
Comme																							
LA-UR-	21-31445																						
Attach																							
No attach	nents.																						
Report	Last Saved By																						
Triad N	ational Security L	LC																					
User:			le	slie@lanl.	gov																		
Name:			Le	eslie Dal	le																		
E-Mail:			le	slie@lanl.	gov																		
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Report	Last Signed By																						
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Name:			Te	errill Ler	nke																		
E-Mail:			tle	emke@lar	nl.gov																		
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Permit																								
Permit	#:	NMR0500	13		Permittee:		Tria	d Natio	onal Secu	rity LLC					Facilit	y:	LOS AL	AMOS NA	ATIONA	L LABORATORY				
Major:		No			Permittee A	Address:		Box 16 Alamo	663 os, NM 87	545					Facilit	y Locatio		PO BOX 1663 LOS ALAMOS, NM 87545						
Permitt	ed Feature:	076 External C	Dutfall		Discharge:		<b>076</b> Fab		d Metal Pro	oducts,	exce	ot Coatin	g											
Report	Dates & Status												0											
	ring Period:	From 10/0	1/21 to 12/31/21		DMR Due D	ate:	02/2	28/22							Status		NetDMF	R Validate	ed					
Consid	lerations for Form	Completio	n											ľ										
Princip	al Executive Offic	er			_									_										
First Na	ame:				Title:										Teleph	none:								
Last Na	ame:																							
No Dat	a Indicator (NODI)																							
Form N																								
Code	Parameter Name		Monitoring Location	Season #	# Param. NODI				ty or Loadir Qualifier 2	-	Inite (	Qualifier 1	Value 1			Concentrat		Units	# of Ex.	Frequency of Analysis	Sample Type			
Code	Name					Sample	Quanner 1	value i	Guanner 2	Value 2	JIIIIS		value i	Guanner 2	value 2	Guanner 5	Value 5	Onits						
01104	Aluminum, total re	coverable	1 - Effluent Gross	0		Permit Req.										<=	1100.0 MAXIMUM	28 - ug/L		01/90 - Quarterly	GR - GRAB			
						Value NODI											C - No Discharge							
						Sample												40						
51450	Nitrite Plus Nitrate	Total	1 - Effluent Gross	0		Permit Req. Value NODI										<=	0.68 MAXIMUM C - No Discharge	19 - mg/L		01/90 - Quarterly	GR - GRAB			
0.1.1						Value NODI					_						C - No Discharge							
	ssion Note	t contain an	www.waluoa.for.the.Co	mala aa	r Effluont Tro	ding then	oono of th	o follo	wing fields		oubr	aittad for	that rou	u Lloito I	Numbo	r of Evour		ofApolyo	ia and					
	ameter row does no neck Errors	or contain an	ly values for the Sa	imple no		ading, then	none of th		wing neids	s will be	Subri	nilled for	that for	w. Onits, i	Numbe		sions, Frequency	or Analys	is, and	Sample Type.				
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Comme																								
	22-20563																							
Attach																								
No attach																								
Report	Last Saved By																							
Triad N	lational Security L	LC																						
User:			leslie	@lanl.go	vo																			
Name:			Leslie	e Dale																				
E-Mail:			leslie	@lanl.go	vo																			
Date/Ti	me:		2022	-01-24 <sup>·</sup>	16:40 (Time	e Zone: -06:	00)																	
Report	Last Signed By																							
User:			TERI	RILLLEN	IKE																			
Name:			Terril	l Lemk	ke																			
E-Mail:			tlemk	ke@lanl.	gov																			
Date/Ti	me:		2022	-01-26	13:16 (Time	e Zone: -06:	00)																	

Permit																							
Dormit	4.		050012		Dem	nittoo		Tric	d Nationa	Scour	ity I I	C		L	Facility		1.05		NATIO				
Permit #	¥:		050013			nittee:			d Nationa			_C			Facility				NATIO	UNAL	L LABORATORY		
Major:		No			Peri	nittee Addre		Box 1663 Alamos,		545			ľ	Facility	Location	LOS	PO BOX 1663 LOS ALAMOS, NM 87545						
Permitte	ed Feature:	076 Exter	nal Outfall		Disc	harge:		- <b>ZC</b> c: Water H	lardnes	s 50-	-74.99 mg	g/l											
Report	Dates & Status				•																		
Monitor	ing Period:	From	10/01/21 to 12/3	1/21	DM	R Due Date:		02/2	28/22					:	Status:		NetD	MR Valid	ated				
Consid	erations for Form	Comp	letion																				
Princip	al Executive Office	ər																					
First Na	me:				Title	:								•	Telepho	one:							
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Form N	ODI:																						
	Parameter	1	Monitoring Location	Season #	Param. NOI				ty or Loadi	-						Concentrat	ion		# o	of Ex.	Frequency of Analysis	Sample Type	
Code	Name					_	Qualifier 1	Value 1	Qualifier 2	Value 2	Units	Qualifier 1	Value 1	Qualifier 2	2 Value 2	2 Qualifier 3	Value 3	Uni	ts				
01000	Zine discoluted for	71	1 Effluent Cross	0		Sample Permit Req.										<=	104.0 MAXIMUN	28 - u	a/L	c	01/90 - Quarterly	GR - GRAB	
01090	Zinc, dissolved [as	Znj	1 - Effluent Gross	0		Value NODI											C - No Discha		<u> </u>				
Submis	sion Note																	-					
	meter row does not	t conta	in any values for t	he Samo	ole nor Efflu	ent Trading.	then non	e of the	e following	ı fields v	will be	e submitt	ed for tl	hat row: I	Units. N	lumber of	Excursions, Fr	equency	of Ana	alvsis.	, and Sample Type.		
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	eck Errors	t conta	in any values for t	he Samp	ble nor Efflu	ient Trading,	then non	e of the	e following	ı fields v	will be	e submitt	ed for ti	hat row: I	Units, N	lumber of	Excursions, Fr	equency	of Ana	alysis	, and Sample Type.		
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No error <b>Comme</b> LA-UR-2	eck Errors s. nts 22-20563	t conta	in any values for t	he Samp	ble nor Efflu	ent Trading,	then non	e of the	e following	ı fields v	will be	e submitt	ed for t	hat row: I	Units, N	lumber of	Excursions, Fr	equency	of Ana	alysis	, and Sample Type.		
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### DMR Copy of Record

Permit																					
Permit	#:	NMR0500	13		Permittee:		Tria	d Natio	nal Secu	rity LLC	;				Facilit	t <b>y:</b>	LOS AL/	AMOS N	ATION/	AL LABORATORY	
Major:		No			Permittee A	ddress:		Box 16 Alamos	63 s, NM 87	545					Facilit	ty Location	n: PO BOX LOS AL/		M 8754	15	
Permitt	ed Feature:	077 External C	Dutfall		Discharge:		<b>077-</b> Fabi		Metal Pro	oducts,	exce	pt Coatin	g								
Report	Dates & Status			I									-								
	ring Period:	From 10/0	)1/21 to 12/31/21		DMR Due Date:			02/28/22				Status: NetDMR Validated									
Consid	lerations for Form	I																			
Princip	Principal Executive Officer																				
First Na	First Name:														Telep	hone:					
Last Na	ame:																				
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Quile	Parameter		Monitoring Location	Season #	Param. NODI				y or Loadir	-	l la lí a	Overlift en 4	Value 4			r Concentrat			# of Ex.	Frequency of Analysis	Sample Type
Code	Name					Sample	Qualifier 1	/alue 1	Qualifier 2	value 2	Units	Qualifier 1	Value 1	Qualifier 2	value 2	2 Qualifier 3	Value 3	Units			
01104	4 Aluminum, total recoverable	1 - Effluent Gross	Effluent Gross 0	0		Permit Req.										<=	1100.0 MAXIMUM	28 - ug/L		01/90 - Quarterly	GR - GRAB
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					Value NODI											C - No Discharge				
						Sample															
51450	Nitrite Plus Nitrate	Total	1 - Effluent Gross	0		Permit Req.												19 - mg/L		01/90 - Quarterly	GR - GRAB
						Value NODI											C - No Discharge				
Submis	ssion Note																				
If a para	ameter row does no	t contain an	y values for the Sa	mple no	r Effluent Tra	ding, then	none of th	e follow	ving fields	s will be	sub	mitted for	that rov	v: Units,	Numbe	er of Excurs	sions, Frequency of	of Analys	is, and	Sample Type.	
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User:	lational Security L	LC	loslic	@lanl.go																	
Name: Leslie Dale																					
E-Mail:         leslie@lanl.gov           Date/Time:         2022-01-24 16:40 (Time Zone: -06:00)						00)															
Report Last Signed By																					
User: TERRILLLEMKE																					
Name: Terrill Lem																					
	E-Mail: tlemke@lan																				
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						2011000.															

#### DMR Copy of Record

Permit	Permit																					
Permit a	#:	NMR	050013		Perm	nittee:		Triad	d National	I Security	y LLC			F	acility		LO	S ALA	MOS NA	TIONA	AL LABORATORY	
Major:		No			Perm	nittee Addre	ess:		Box 1663 Alamos, N		15			F	acility	Location	: PO LO	BOX S ALA	1663 MOS, NI	M 8754	5	
Permitte	ed Feature:	077 Exter	nal Outfall		Discl	harge:		<b>077-</b> Zinc	<b>·zc</b> : Water H	ardness	50-74.	99 mg/l	I									
Report	Dates & Status																					
Monitor	ring Period:	From	n 10/01/21 to 12/3 <sup>.</sup>	1/21	DMR	DMR Due Date:			02/28/22				5	Status:			DMR	Validate	d			
Consid	erations for Form	Сотр	letion																			
Principa	al Executive Office	er																				
First Na	ime:				Title:	:								1	elepho	ne:						
Last Na	ime:																					
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Form N	ODI:																					
	Parameter		Monitoring Location	Season #	Param. NOD				y or Loadin	_					-	Concentrat				# of Ex.	Frequency of Analys	is Sample Type
Code	Name					Sample	Qualifier 1 \	/alue 1	Qualifier 2	Value 2 U	Inits Qua	alifier 1 V	/alue 1 (	Qualifier 2	Value 2	Qualifier 3	Value	3	Units			
01090	Zinc, dissolved [as	Znl	1 - Effluent Gross	0		Permit Req.										<=	104.0 MAXIMU	JM	28 - ug/L		01/90 - Quarterly	GR - GRAB
						Value NODI											C - No Disc	harge				
Submis	sion Note																					
If a para	meter row does not	conta	in any values for t	he Samp	le nor Efflue	ent Trading,	then none	of the	following	fields w	ill be su	ubmitted	d for th	at row: l	Jnits, N	umber of I	Excursions,	Frequ	ency of A	Analysis	s, and Sample Type	<del>)</del> .
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Name: E-Mail:				Ferrill L																		
	E-Mail:         tlemke@lanl.g           Date/Time:         2022-01-26 1				Timo Zono:	06.00)																
Date/11	ne.		2	2022-01-2	20 13.10 (	Time Zone:	-00.00)															

#### ATTACHMENT 6: ANNUAL REPORTS

NeT Document

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 NA	TIONAL LABORATORY										
Facility Point of C	ontact										
First Name Middle Initial Last I											
Phone: 505-665-2397		Ext.:									
Email: tlemke@lanl.gov											
Facility Mailing Ac	dress										
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 A	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 desig information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the inf belief, true, accurate, and complete. I have no personal knowledge that the information submitted is other than true, accurate, and complete. I am aware including the possibility of fine and imprisonment for knowing violations.	ormation, the information submitted is, to the be	st of my knowledge and
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.

Facility	Outfall	Outfall Type	Visual Assessments Performed between	Visual Assessment Dates	Evidence of Pollutants Observed
			7/1/2021 and 12/31/2021 (Q1 and Q2)		
TA 2.28 Motols Ephrication Chan	076	Monitored	1	7/19/2021	None
TA-3-38 Metals Fabrication Shop	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
	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
TA-60 Roads and Grounds	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
	022	Monitored	1	7/14/2021	None
	021	SIDP to 022	2	7/7/2021, 10/1/2021	None
TA-60-1 Heavy Equipment Yard	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
	026	Monitored	1	7/6/2021	None
TA-60-2 Warehouse	027	SIDP to 026	1	10/1/2021	None
TA-60-2 Warenouse	028	SIDP to 026	2	7/7/2021, 10/1/2021	None
	075	Monitored	1	7/29/2021	None

#### Table 2. Summary of Quarterly Visual Assessments

TA = Technical Area

MRF = Material Recycling Facility SIDP = Substantially Identical Discharge Point

Q = Monitoring Quarter

#### ATTACHMENT 7: ROUTINE FACILITY INSPECTIONS

Maintenance Details

#### Work Order MSGP-RI-65010

MSGP Routine Inspection Printed 7/29/2021 - 1:25 PM

1.	ested: 7/1/2021 5:37:00 PM dure: MSGP Routine Facility Inspection (EPC-CP-QP- 2108 R0 Form 1)		Farget:     7/31/2021     Image: Comparison of the section of				тор	
Last P								
Projec	t: Routine Facility Inspections July 2021 (P-MSGP-RI-5500)			Contact: Phone:				
Reaso	on: 2021 July Inspections							
<b>r</b> asks								
#	Description				Meas.	No	N/A	Yes
Weath	ner Information							
20	Describe the weather at time of in Comments: 61 degrees F. Raining		cument the temperature (F°).			Ē	Г	14
Within	n the Facility Boundary							
40	Is the facility free of previously uni occurred since the last inspection	dentified discha	rges from and/or pollutants th	nat have		-	-	121
50	If "No" has a CAR been previous	the second s				-	1	
60	Is the facility free of discharge of p			scribe.	-	F	Г	14
70	Is the facility free of evidence of, o system. If "No" describe.	r the potential fo	or, pollutants entering the dra	inage			-	IV
Outfal	Il Inspection (identify needed main	tenance and re	nairs failed control measu	ree that nee	d replace	mont		
descr	iption of corrective actions in relev	ant task comm	ient)	les that hee	u replace	ement,	ora	
90	Monitored Outfall [076] Free of E	the second s					F	12
100	Monitored Outfall [076] Flow Dise describe.					F	Г	12
110	Monitored Outfall [076] Free of E Water? If "No", describe.	vidence of Pollu	utants in Discharges and/or R	eceiving		Г	Г	14
120	Monitored Outfall [076] Free of a describe.	ny unauthorized	d non-stormwater discharges'	? If "No"		F	F	14
130	Montiored Outfall [077] Free of E	vidence of Eros	sion? If "No", describe.			F	F	14
140	Montiored Outfall [077] Flow Dise describe.	the second s		o",		F		1
150	Montiored Outfall [077] Free of E Water? If "No", describe.	vidence of Pollu	utants in Discharges and/or R	eceiving		Г	Г	14
160	Montiored Outfall [077] Free of a describe.	ny unauthorized	I non-stormwater discharges?	P If "No"		Г	Г	14
Contro	ol Measures (identify needed maint	enance and re	pairs, failed control measur	es that need	d replace	nent o	ra	
descri	ption of corrective actions in relev	ant task comm	ents).		- opicion	, only o		
180	Asphalt Berm [0300103040014] ( describe condition & need for Main	tenance, Repai	r, or Replacement.			Г	Г	12
190	Asphalt Berm [0300103040028] ( describe condition & need for Main	Control Measure tenance, Repair	is operating effectively? If "N r, or Replacement.	lo"		Г	Г	14
200	Gravel Bags [0300103100020] Co describe condition & need for Main	ontrol Measure i tenance, Repair	s operating effectively? If "No r, or Replacement.	"		Г	Г	1
210	Base Course Berm [03001030200 describe condition & need for Main	001] Control Me	asure is operating effectively	? If "No"		Г	Г	14
220	Drop Inlet with Petro-Plug [0300' If "No" describe condition & need for	109010003] Cor	ntrol Measure is operating effe	ectively?			F	12
230	EnviroSoxx w/ MetalLoxx [03001 "No" describe condition & need for	03200029] Con	trol Measure is operating effe	ectively? If		-	-	14
			and an evel and an even and the				1	1.

240	EnviroSoxx w/ MetalLoxx [0300103200030] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	Ē	F	1×
250	EnviroSoxx w/ MetalLoxx [0300103200031] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	Г	Г	14
260	EnviroSoxx w/ MetalLoxx [0300103200032] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	Г	Г	14
270	EnviroSoxx w/ MetalLoxx [0300103200033] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	F	Г	14
280	EnviroSoxx w/ MetalLoxx [0300103200034] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	F		14
290	EnviroSoxx w/ MetalLoxx [0300103200035] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	Г		12
			·	

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

310	Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe. Comments: see CA #1993: Inside the metal fab yard outside of TA-3-38 there were several stacks of rebar. On the east end of the stacks about 2 ft of the rebar was exposed to precipitation, likely due to wind blowing the tarp.	r <b>X</b>	-	F
320	Transfer areas for substances in bulk: controls adequate (appropriate, effective, and operating)? If "No" describe.	F	F	1
330	Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe.	F	Г	12
340	Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe.	Г	Г	14
350	Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	Г	Г	14
360	Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	Г	F	14
370	Fueling areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	E	14	Г
380	Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	E	1	Г
390	Machinery: controls adequate (appropriate, effective, and operating)? If "No" describe.	Г	F	11
400	Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	F	Г	14
410	Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If "No" describe.		1.	14
420	Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If "No" describe.			14
430	Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If "No" describe.		14	
440	Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If "No" describe.	<u>г</u>	1	12
450	Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If "No" describe.	Ē	F	12
460	Leaks and spills: controls adequate (appropriate, effective, and operating)? If "No" describe.	Г	Г	14
Non-C	ompliance			
180	Free of incidents of observed non-compliance not already identified above? If "No" describe.	Г	Г	[¥
Additio	onal Control Measures			
500	Are permit requirements satisfied with existing control measure(s)? If "No" describe additional control measures needed.		Г	12

Labor Report

Completed: 7/27/2021 2:25:00 PM

Strught	7/29/2021		
Signature / Name	Date	Signature / Name	Date
l confirm the information as record	ed is true, accurate and com	olete.	Date

#### **CERTIFICATION STATEMENT**

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

(Signatory must meet definition in Section B.11.A, eg. FOD, Ops Mgr, DESH Group Leader, EPC Group Leader)

Print name and title: \_\_\_\_Alberto Hernandez Ancira - Operations Manager

	Alberto Hernandez	Digitally signed by Alberto		
	/ iberto riernanaez	2 , 0 ,		
	Ameine 247720	Hernandez Ancira -347730		
Signatura	Ancira -347730	Date: 2021.08.04 12:48:03 -06'00'	D	a ( 1 / a a a 1
Signature.		Dute: 2021.000.0112.10.00 0000	Date:	8/4/2021

**Maintenance Details** 

Work Order MSGP-RI-65141

MSGP Routine Inspection Printed 9/1/2021 - 10:56 AM

Procedure	d: 8/30/2021 5:22:00 PM e: MSGP Routine Facility Inspection (EPC-CP-QP-2108 R0 Form 1)	Priority/Type: N	/31/2021 lormal / Inspection ltilities and Infrastructure	➡ MSGP 赤 RG121 争 TA-3-3		Fab Sh	op	
Last PM: Project:	7/27/2021 Routine Facility Inspections August 2021 (P-MSGP-RI- 5510)			Contact: Phone:				
Reason:	2021 August Inspections							
asks					_			
# [	Description				Meas.	No	N/A	Yes
Weather	Information							
E	Describe the weather at time of ins Comments: 73 degrees F. Partly	pection and docum	nent the temperature (F°).	e el				
	cattered T-storms.	sunny mun sidad	a and a se percent chance	6 VI		Γ.	Г	14
Within the	e Facility Boundary		100000					
40 o	s the facility free of previously unid occurred since the last inspection If	entified discharges	s from and/or pollutants tha	t have		2	1	
50	the state of the second s	the second second state of the second s	anu diashasan 0					1
	If "No" has a CAR been previous							
_	s the facility free of discharge of po			and the second se				
70 s	Is the facility free of evidence of, or the potential for, pollutants entering the drainage system. If "No" describe.					Г	Г	12
of correct	spection (identify needed mainte tive actions in relevant task com Monitored Outfall [076] Free of Ev	iment)		es that need	replacem	ent, or	a desc	riptio
	Monitored Outfall [076] Flow Diss	and the second		describe		-		
IV	Nonitored Outfall [076] Free of Ev Vater? If "No", describe.	and the second se		and the second se				
N	Nonitored Outfall [076] Free of an escribe.	y unauthorized no	n-stormwater discharges?	lf "No"		-	-	14
	Iontiored Outfall [077] Free of Ev	vidence of Erosion'	If "No" describe				_	
		the second s						
		pation Devices On		describe			<u> </u>	V
150 M	Iontiored Outfall [077] Free of Ev	the second s	erating Effectively? If "No"	the second s		<u> </u>	F	14
150 V N	<b>Iontiored Outfall [077]</b> Free of Ev Vater? If "No", describe. <b>Iontiored Outfall [077]</b> Free of an	idence of Pollutan	erating Effectively? If "No" ts in Discharges and/or Re	ceiving		- -	1.20	12
150 V N 160 de	<b>Iontiored Outfall [077]</b> Free of Ev Vater? If "No", describe. <b>Iontiored Outfall [077]</b> Free of an escribe.	idence of Pollutan y unauthorized no	erating Effectively? If "No" ts in Discharges and/or Re n-stormwater discharges?	ceiving f "No"	replacmo		Г	12
Control M	Nontiored Outfall [077] Free of Ev Vater? If "No", describe. Nontiored Outfall [077] Free of an escribe. leasures (identify needed mainte ive actions in relevant task com	vidence of Pollutan y unauthorized no enance and repair ments).	erating Effectively? If "No" ts in Discharges and/or Re n-stormwater discharges? s, failed control measure	ceiving f "No" s that need	replacme	   nt, or a	Г	12
50     W       60     di       60     di       Control M     A       80     cc	Iontiored Outfall [077] Free of Ev Vater? If "No", describe. Iontiored Outfall [077] Free of an escribe. leasures (identify needed mainte ive actions in relevant task com sphalt Berm [0300103040014] Co ondition & need for Maintenance, F	vidence of Pollutan y unauthorized no enance and repair ments). ontrol Measure is of Repair, or Replace	erating Effectively? If "No" ts in Discharges and/or Re n-stormwater discharges? s, failed control measure operating effectively? If "No ment.	ceiving f "No" s that need " describe	replacme	  nt, or a	Г	IV IV
50     V       60     di       60     di       Control M     di       of correct     A       80     ca       90     ca	Iontiored Outfall [077] Free of Ev Vater? If "No", describe. Iontiored Outfall [077] Free of an escribe. easures (identify needed mainte ive actions in relevant task com sphalt Berm [0300103040014] C ondition & need for Maintenance, F sphalt Berm [0300103040028] C ondition & need for Maintenance, F	vidence of Pollutan y unauthorized noi enance and repair ments). ontrol Measure is of Repair, or Replace ontrol Measure is of Repair, or Replace	erating Effectively? If "No" ts in Discharges and/or Re n-stormwater discharges? s, failed control measure operating effectively? If "No ment. operating effectively? If "No ment.	ceiving f "No" s that need " describe " describe	replacme	I	Г	IV IV iption
150         V           160         di           20ntrol M         di           of correct         A           80         cc           90         cc           600         cc	Iontiored Outfall [077] Free of Ev Vater? If "No", describe. Iontiored Outfall [077] Free of an escribe. easures (identify needed mainte ive actions in relevant task com sphalt Berm [0300103040014] Co ondition & need for Maintenance, F sphalt Berm [0300103040028] Co ondition & need for Maintenance, F iravel Bags [0300103100020] Cor ondition & need for Maintenance, F	vidence of Pollutan y unauthorized noi enance and repair ments). ontrol Measure is of Repair, or Replace ontrol Measure is op Repair, or Replace ntrol Measure is op Repair, or Replace	erating Effectively? If "No" ts in Discharges and/or Re n-stormwater discharges? s, failed control measure operating effectively? If "No ment. perating effectively? If "No" ment.	ceiving f "No" s that need " describe " describe describe	replacme		Г	IV IV iption
150         V           160         di           Control M         di           of correct         A           180         cc           190         cc           200         cc           B         CO	Iontiored Outfall [077] Free of Ev Vater? If "No", describe. Iontiored Outfall [077] Free of an escribe. easures (identify needed mainte ive actions in relevant task com sphalt Berm [0300103040014] C ondition & need for Maintenance, F sphalt Berm [0300103040028] C ondition & need for Maintenance, F aravel Bags [0300103100020] Cor	vidence of Pollutan y unauthorized noi enance and repair ments). ontrol Measure is of Repair, or Replace ontrol Measure is op Repair, or Replace ntrol Measure is op Repair, or Replace ontrol Measure is op Repair, or Replace Of Control Measu	erating Effectively? If "No" ts in Discharges and/or Re n-stormwater discharges? s, failed control measure operating effectively? If "No ment. perating effectively? If "No" ment. re is operating effectively? If "No"	ceiving f "No" s that need " describe " describe describe	replacme		Г	2  2  2  2  2
150         V           160         di           160         di           Control M         of correct           A         A           180         cc           200         cc           200         cc           210         de	Iontiored Outfall [077] Free of Ev Vater? If "No", describe. Iontiored Outfall [077] Free of an escribe. easures (identify needed mainte ive actions in relevant task com sphalt Berm [0300103040014] Co ondition & need for Maintenance, F sphalt Berm [0300103040028] Co ondition & need for Maintenance, F iravel Bags [0300103100020] Cor ondition & need for Maintenance, F ase Course Berm [030010302000]	vidence of Pollutan y unauthorized noi enance and repair ments). ontrol Measure is of Repair, or Replace ontrol Measure is op Repair, or Replace ontrol Measure is op Repair, or Replace 01] Control Measu enance, Repair, or 09010003] Control	erating Effectively? If "No" ts in Discharges and/or Re n-stormwater discharges? s, failed control measure operating effectively? If "No ment. operating effectively? If "No" ment. re is operating effectively? Replacement. Measure is operating effectively?	ceiving f "No" s that need " describe describe If "No"	replacme		Г	
150         V           160         di           180         cc           180         cc           200         cc           200         cc           210         di           220         "N	Iontiored Outfall [077] Free of Ev Vater? If "No", describe. Iontiored Outfall [077] Free of an escribe. easures (identify needed mainter ive actions in relevant task com sphalt Berm [0300103040014] Cr ondition & need for Maintenance, F sphalt Berm [0300103040028] Cr ondition & need for Maintenance, F ravel Bags [0300103100020] Cor ondition & need for Maintenance, F ase Course Berm [030010302000 escribe condition & need for Maintenance, F	vidence of Pollutan y unauthorized noi enance and repair ments). ontrol Measure is of Repair, or Replace ontrol Measure is op Repair, or Replace 01] Control Measu enance, Repair, or 09010003] Control Maintenance, Repair	erating Effectively? If "No" ts in Discharges and/or Re n-stormwater discharges? s, failed control measure operating effectively? If "No ment. operating effectively? If "No" ment. re is operating effectively? Replacement. Measure is operating effectively? Replacement. Measure is operating effectively?	ceiving f "No" s that need " describe describe If "No" ctively? If	replacme		Г	

	"No" describe condition & need for Maintenance, Repair, or Replacement.			
250	EnviroSoxx w/ MetalLoxx [0300103200031] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	F	F	12
260	EnviroSoxx w/ MetalLoxx [0300103200032] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	F	F	14
270	EnviroSoxx w/ MetalLoxx [0300103200033] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		F	14
280	EnviroSoxx w/ MetalLoxx [0300103200034] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		Г	14
290	EnviroSoxx w/ MetalLoxx [0300103200035] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	Ē	Г	~

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

310	Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe. Comments: See CA# 2003: Pipe fitters metal storage along area along the fence line on the north perimeter of 3-38 is uncovered and exposed. Rain is in the forecast. The area needs housekeeping cleanup as well.	1×	F	-
320	Transfer areas for substances in bulk: controls adequate (appropriate, effective, and operating)? If "No" describe.			1
330	Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe.	Г	Г	1
340	Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe.	Г	Г	1
350	Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	Г	Г	1
360	Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	- E	Г	14
370	Fueling areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		14	Г
380	Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	Г	14	Г
390	Machinery: controls adequate (appropriate, effective, and operating)? If "No" describe.	Г	Г	11
400	Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	Г	Г	1
410	Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If "No" describe.	Г	Г	1
420	Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If "No" describe.	Г	Г	1
430	Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If "No" describe.	Ē	14	Г
440	Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If "No" describe.	Г	Г	1
450	Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If "No" describe.		Г	1
460	Leaks and spills: controls adequate (appropriate, effective, and operating)? If "No" describe.		Г	14
Non-C	ompliance			
480	Free of incidents of observed non-compliance not already identified above? If "No" describe.	Ē	F	IV
Additio	onal Control Measures			
500	Are permit requirements satisfied with existing control measure(s)? If "No" describe additional control measures needed.	F	Г	14

Completed: 8/30/2021 3:20:00 PM

Report: Jacob Knight

Name natúre.

Usignature / Name Date Date I confirm the information as recorded is true, accurate and complete.

Signature / Name

Date

#### **CERTIFICATION STATEMENT**

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

(Signatory must meet definition in Section B.H.A, eg. FOD, Ops Mgr, DESH Group Leader, EPC Group Leader)

Alberto Hernandez Ancira - IF-OPS Operations Manager Print name and title:

Alberto Hernandez Signature: Ancira - 347730 Date: 2021.09.02 10:54:38 -06'00' Date: 9/02/2021

**Maintenance Details** 

### Work Order MSGP-RI-65112

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

manneth	ance Details						
Requested: 8/31/2021 3:20:00 PM Procedure: MSGP Routine Facility Inspection (EPC-CP-QP- 2108 R0 Form 1)		Target: Priority/Type: Department:	the state of the second s	⊇ MSGP Program 걂 RG121.9 ℯ TA-3-38 Metals		тор	
Last PM:							
Project:	Routine Facility Inspections September 2021 (P-MSGP- RI-5516)			Contact: Phone:			
Reason:	2021 September Inspections						
asks					_		
#	Description			Meas.	No	N/A	Ye
	Information			meas.	NO	N/A	10
	Describe the weather at time of in	spection and do	support the temperature (E <sup>o</sup> )				
20	Comments: Sunny, clear and 6	a degrees F.	cument the temperature (F ).		Г	Ē	I.
ALC: NOT	e Facility Boundary						
	is the facility free of previously un	identified dischar	rges from and/or pollutante th	at have			
40	occurred since the last inspection	If "No" describe.	ges nom and/or polititarits ti	lat nave	E	F	T.
50	If "No" has a CAR been previou	sly initiated for th	is new discharge?		Г	11	Г
60 1	s the facility free of discharge of	collutants at the t	time of inspection? If "No" de	scribe.	Г	Г	10
	is the facility free of evidence of, on system. If "No" describe.	or the potential fo	r, pollutants entering the dra	nage	Ē	Г	1
Outfall In	expection (identify peeded main		and an Antibud a superior to superior				
descripti	spection (identify needed main on of corrective actions in relev	vant task comm	ent)	res that need replac	ement,	ora	
	Monitored Outfall [076] Free of I						Į.
100 0	Monitored Outfall [076] Flow Dis describe.	12 11 11 11 11 11 11 11 11 11 11 11 11 1			Г	P	10
110 V	Monitored Outfall [076] Free of E Nater? If "No", describe.	-10 C			Г	Г	[¥
120 c	Monitored Outfall [076] Free of a describe.			? If "No"	E	Г	10
	Montiored Outfall [077] Free of E	the state of the s					1
140 c	Montiored Outfall [077] Flow Dis describe.	sipation Devices	Operating Effectively? If "No	",	Г	Г	14
150 V	Montiored Outfall [077] Free of E Nater? If "No", describe.	Evidence of Pollu	tants in Discharges and/or R	eceiving	Г	Г	1
	Montiored Outfall [077] Free of a lescribe.	ny unauthorized	non-stormwater discharges?	' If "No"	Г	Г	12
Control N	leasures (identify needed main	tenance and rep	pairs, failed control measu	es that need replace	nent. o		-
descriptio	on of corrective actions in relev	ant task comm	ents).				
A 180 d	Asphalt Berm [0300103040014] lescribe condition & need for Mair	Control Measure	is operating effectively? If "N	lo"	127	1	
	sphalt Berm [0300103040028]			lo"			- IV
190 d	lescribe condition & need for Mair	tenance, Repair	, or Replacement.		F	Г	14
G	Gravel Bags [0300103100020] Co escribe condition & need for Mair	ontrol Measure is	operating effectively? If "No		Г	Г	IV
B	Base Course Berm [0300103020 escribe condition & need for Mair	001] Control Mea	asure is operating effectively	? If "No"	F	-	14
							18
220 If	"No" describe condition & need f	109010003] Con	trol Measure is operating effe	ectively?	-	-	100

-	"No" describe condition & need for Maintenance, Repair, or Replacement.			
240	EnviroSoxx w/ MetalLoxx [0300103200030] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	E	Г	14
250	EnviroSoxx w/ MetalLoxx [0300103200031] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	E.	F	14
260	EnviroSoxx w/ MetalLoxx [0300103200032] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	Г	Г	14
270	EnviroSoxx w/ MetalLoxx [0300103200033] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	- F	Г	~
280	EnviroSoxx w/ MetalLoxx [0300103200034] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	E	F	14
290	EnviroSoxx w/ MetalLoxx [0300103200035] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	Г	E	14

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

		1
Г	Г	14
Г		14
		12
Г	Г	12
Г	Г	14
Г	14	Г
<b>C</b>	14	Г
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Г	Г	12
Г	Г	14
Г		14
	14	Г
F	Г	10
r <b>X</b>	Г	Ē
Г	<b>F</b>	14
г	Г	14
Г	Г	14

#### Labor Report

Completed: 9/21/2021 4:00:00 PM

Report: Jacob Kn	iaht
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Signature / Name	9/21/2021 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 of accordance with a system designed to as Based on my inquiry of the person or pe	ssure that qualified personnel	properly gathered and evaluated the	information submitted.				

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.H.A, eg. FOD, Ops Mgr, DESH Group Leader, EPC Group Leader)

Print name and title:	Lacey J. Bruaw	Facility Operations Director	
Signature:	ey J. Bruaw	Date: 10/13/2021	

**Maintenance Details** 

### Work Order MSGP-RI-65270

MSGP Routine Inspection Printed 11/1/2021 - 11:55 AM

	ted: 10/4/2021 11:35:00 AM ure: MSGP Routine Facility Inspection (EPC-CP-QP- 2108 R0 Form 1)	Target:10/31/2021Priority/Type:Normal / InspectionDepartment:Utilities and Infrastructure	MSGP Program 류 RG121.9 🍰 TA-3-38 Metals			
Last PN	<b>//:</b> 8/30/2021					
Project	: Routine Facility Inspections October 2021 (P-MSGP-RI- 5524)		Contact: Phone:			
Reason	: 2021 October Inspections					
asks						
#	Description		Meas.	No	N/A	Yes
Weathe	er Information					
20		nspection and document the temperature (F°)		-	F	Tie
10.75 C C	And the second	10001				
within	the Facility Boundary	nidentified discharges from and/or pollutants th	ant have			
40	occurred since the last inspectio	n If "No" describe.	hat have	E	E	14
50	and the state of the	usly initiated for this new discharge?		F	1V	
60		pollutants at the time of inspection? If "No" de	escribe.	Ē	F	12
70	Is the facility free of evidence of, or the potential for, pollutants entering the drainage system. If "No" describe.				-	1
Outfall descrip	Inspection (identify needed mai otion of corrective actions in rele	ntenance and repairs, failed control measu evant task comment)	res that need replac	ement,	or a	
90	Monitored Outfall [076] Free of	Evidence of Erosion? If "No", describe.		Г	Г	14
100	Monitored Outfall [076] Flow D describe.	ssipation Devices Operating Effectively? If "No	o'',	Г	Г	~
110	Monitored Outfall [076] Free of Water? If "No", describe.	Evidence of Pollutants in Discharges and/or F	Receiving	E	Г	14
120	Monitored Outfall [076] Free of describe.	any unauthorized non-stormwater discharges	? If "No"	Г	Г	IV
130	Montiored Outfall [077] Free of	Evidence of Erosion? If "No", describe.		Г	Г	14
140	Montiored Outfall [077] Flow Di describe.	ssipation Devices Operating Effectively? If "No	o'',	Г	Г	14
150	Montiored Outfall [077] Free of Water? If "No", describe.	Evidence of Pollutants in Discharges and/or R	Receiving	Г	Г	12
160	Montiored Outfall [077] Free of describe.	any unauthorized non-stormwater discharges	? If "No"	Г	Г	11
Control	Measures (identify needed mai	ntenance and repairs, failed control measu	res that need replac	ment, c	ora	
descrip	tion of corrective actions in rele	vant task comments).		111111		
180	describe condition & need for Ma	Control Measure is operating effectively? If "N intenance, Repair, or Replacement.		Г	<u> </u>	14
190	describe condition & need for Ma	Control Measure is operating effectively? If "N intenance, Repair, or Replacement.	13 1	Г	Г	12
200	describe condition & need for Ma	Control Measure is operating effectively? If "No intenance, Repair, or Replacement.		F	Г	14
210	describe condition & need for Ma	0001] Control Measure is operating effectively intenance, Repair, or Replacement.	140.0	Г	Г.	14
220	If "No" describe condition & need	0109010003] Control Measure is operating eff for Maintenance, Repair, or Replacement.		Г	Г	14
230	EnviroSoxx w/ MetalLoxx [0300	103200029] Control Measure is operating effe	ectively? If	Г		12

_	"No" describe condition & need for Maintenance, Repair, or Replacement.			
240	EnviroSoxx w/ MetalLoxx [0300103200030] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	Г	Г	14
250	EnviroSoxx w/ MetalLoxx [0300103200031] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	Г	Ē	14
260	EnviroSoxx w/ MetalLoxx [0300103200032] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	Г	E	14
270	EnviroSoxx w/ MetalLoxx [0300103200033] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	F	E	12
280	EnviroSoxx w/ MetalLoxx [0300103200034] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	E	F	14
290	EnviroSoxx w/ MetalLoxx [0300103200035] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	Г	F	14

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

Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	Г	Г	10
Transfer areas for substances in bulk: controls adequate (appropriate, effective, and operating)? If "No" describe.	F	Г	14
Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe.	Ē	E	14
Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe.	E	Г	
Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	Г	Г	12
Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	Ē	Г	12
Fueling areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	F	-	
Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	Г	1.1	1
Machinery: controls adequate (appropriate, effective, and operating)? If "No" describe.	Г	Г	14
Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	Б	Г	14
Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If "No" describe.	F	1	14
Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If "No" describe.	Г	100	
Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If "No" describe.			
Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If "No" describe.	F		-
Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If "No" describe.	F		14
Leaks and spills: controls adequate (appropriate, effective, and operating)? If "No" describe.	Ē	1.1.1	12
ompliance		-	-
Free of incidents of observed non-compliance not already identified above? If "No" describe.	Ē	Г	14
onal Control Measures		1	
Are permit requirements satisfied with existing control measure(s)? If "No" describe additional control measures needed.		Г	14
	and operating)? If "No" describe. Transfer areas for substances in bulk: controls adequate (appropriate, effective, and operating)? If "No" describe. Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe. Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe. Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe. Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe. Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe. Fueling areas: controls adequate (appropriate, effective, and operating)? If "No" describe. Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If "No" describe. Machinery: controls adequate (appropriate, effective, and operating)? If "No" describe. Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If "No" describe. Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If "No" describe. Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If "No" describe. Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If "No" describe. Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If "No" describe. Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If "No" describe. Locations and sources of nun-on to the site: controls adequate (appropriate, effective, and operating)? If "No" describe. Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If "No" describe. Locations and splils: controls	and operating)? If "No" describe.	and operating)? If "No" describe.

Labor Report

Completed: 10/20/2021 12:30:00 PM

Report: Jacob Knight 10/27/2021 - 166552: There are far less corrective actions for this facility recently because there is a physical cover now at

a historically problematic metal storage rack at the sigma mesa storage yard. Also, other metal has been proactively covered with tarps.

J. Knight	10/27/2021		
Signature / Name	Date	Signature / Name	Date
I confirm the information as recorde	d is true, accurate and comr	olete.	

**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: Lacey J. Bruaw, Facility Operations Director

Signature:	Lacey J. Br	uaw	Date	11/3/2021	
	0				

-Maintenance Details

### Work Order MSGP-RI-65338

MSGP Routine Inspection Printed 12/1/2021 - 11:56 AM

	ted: 11/1/2021 11:37:00 AM ure: MSGP Routine Facility Inspection (EPC-CP-QP- 2108 R0 Form 1) /: 10/20/2021	Target: Priority/Type: Department:	11/28/2021 Normal / Inspection Utilities and Infrastructure	🚠 RG1	MSGP Program RG121.9 TA-3-38 Metals Fab Shop			
Project	Routine Facility Inspections November 2021 (P-MSGP- RI-5530)			Contact Phone:				
Reason	2021 November Inspections							
asks								
#	Description				Meas.	No	N/A	Yes
Weathe	er Information							
20	Describe the weather at time of in Comments: sunny and 58 degr		ocument the temperature	e (F°).		E		14
	<b>the Facility Boundary</b> Is the facility free of previously ur			ints that				
40	have occurred since the last insp	the second s						1
50	If "No" has a CAR been previou	the second se	the second s				11	
60	Is the facility free of discharge of pollutants at the time of inspection? If "No" describe.					Г	Г	14
	Is the facility free of evidence of, or the potential for, pollutants entering the drainage							
	system. If "No" describe.					Г		
Outfall descrip		ntenance and re want task comr	epairs, failed control m nent)		t need rep	laceme	ent, or	
Outfall descrip 90	system. If "No" describe. Inspection (identify needed main tion of corrective actions in rele	ntenance and re want task comr Evidence of Ero	epairs, failed control m nent) sion? If "No", describe.	easures that	t need rep	laceme	ent, or	
Dutfall descrip 90	system. If "No" describe. Inspection (identify needed main tion of corrective actions in rele Monitored Outfall [076] Free of Monitored Outfall [076] Flow Dis	ntenance and re evant task comr Evidence of Ero ssipation Device Evidence of Poll	epairs, failed control m nent) sion? If "No", describe. is Operating Effectively?	easures that	t need rep	lacemo		
Outfall descrip 90 100 110	system. If "No" describe. Inspection (identify needed main tion of corrective actions in rele Monitored Outfall [076] Free of Monitored Outfall [076] Flow Dis describe. Monitored Outfall [076] Free of Receiving Water? If "No", describe Monitored Outfall [076] Free of "No" describe.	ntenance and revant task comm Evidence of Ero ssipation Device Evidence of Poll e. any unauthorize	epairs, failed control m nent) sion? If "No", describe. s Operating Effectively? lutants in Discharges and d non-stormwater discha	easures that If "No", I/or	t need rep		 ent, or : 	12
Dutfall descrip 30 100 10 20	system. If "No" describe. Inspection (identify needed main tion of corrective actions in rele <u>Monitored Outfall [076]</u> Free of <u>Monitored Outfall [076]</u> Free of <u>Receiving Water? If "No", describ</u> <u>Monitored Outfall [076]</u> Free of <u>Receiving Water? If "No", describ</u> <u>Monitored Outfall [076]</u> Free of	ntenance and revant task comm Evidence of Ero ssipation Device Evidence of Poll e. any unauthorize	epairs, failed control m nent) sion? If "No", describe. s Operating Effectively? lutants in Discharges and d non-stormwater discha	easures that If "No", I/or	t need rep			a [* [*
Dutfall descrip 30 100 10 20 30	system. If "No" describe. Inspection (identify needed main tion of corrective actions in rele Monitored Outfall [076] Free of Monitored Outfall [076] Free of Receiving Water? If "No", describ Monitored Outfall [076] Free of "No" describe. Montiored Outfall [077] Free of Montiored Outfall [077] Flow Dis describe.	ntenance and re- vant task comm Evidence of Ero ssipation Device Evidence of Poll e. any unauthorize Evidence of Ero ssipation Device	epairs, failed control m nent) sion? If "No", describe. s Operating Effectively? lutants in Discharges and d non-stormwater discha sion? If "No", describe. s Operating Effectively?	easures that If "No", d/or irges? If If "No",	t need rep			a 12 12 12
Dutfall descrip 30 100 100 20 30 40	system. If "No" describe. Inspection (identify needed main tion of corrective actions in rele <u>Monitored Outfall [076]</u> Free of Monitored Outfall [076] Flow Dis- describe. Monitored Outfall [076] Free of Receiving Water? If "No", describ Monitored Outfall [076] Free of "No" describe. Montiored Outfall [077] Free of Montiored Outfall [077] Flow Dis-	ntenance and reveat task comm Evidence of Ero ssipation Device Evidence of Poll e. any unauthorize Evidence of Ero ssipation Device Evidence of Poll	epairs, failed control m nent) sion? If "No", describe. s Operating Effectively? lutants in Discharges and d non-stormwater discha sion? If "No", describe. s Operating Effectively?	easures that If "No", d/or irges? If If "No",	t need rep			a 12 12 12
70 Outfall descrip 90 100 110 120 120 130 140 150 160	system. If "No" describe. Inspection (identify needed main tion of corrective actions in rele Monitored Outfall [076] Free of Monitored Outfall [076] Free of Receiving Water? If "No", describ Monitored Outfall [076] Free of "No" describe. Montiored Outfall [077] Free of Montiored Outfall [077] Free of	ntenance and revant task comm Evidence of Ero ssipation Device Evidence of Poll e. any unauthorize Evidence of Ero ssipation Device Evidence of Poll e.	epairs, failed control m nent) sion? If "No", describe. s Operating Effectively? lutants in Discharges and d non-stormwater discha sion? If "No", describe. s Operating Effectively? utants in Discharges and	easures that If "No", I/or Irges? If If "No",	t need rep			a 12 12 12
Outfall descrip 90 100 110 120 120 130 140 150 160 Control descript	system. If "No" describe. Inspection (identify needed main tion of corrective actions in rele Monitored Outfall [076] Free of Monitored Outfall [076] Free of Receiving Water? If "No", describ Monitored Outfall [076] Free of "No" describe. Montiored Outfall [077] Free of Montiored Outfall [077] Free of Montiored Outfall [077] Free of Montiored Outfall [077] Free of Receiving Water? If "No", describ Montiored Outfall [077] Free of Montiored Outfall [077] Free of Receiving Water? If "No", describ Montiored Outfall [077] Free of Montiored Outfall [077] Free of Receiving Water? If "No", describ Montiored Outfall [077] Free of Montiored Outfall [077] Free of Receiving Water? If "No", describ Montiored Outfall [077] Free of Montiored Outfall [077] Free of Receiving Water? If "No", describ Montiored Outfall [077] Free of Montiored Outfall [077] Free of Receiving Water? If "No", describ Montiored Outfall [077] Free of Montiored Outfall [077] Free o	ntenance and re- vant task comm Evidence of Ero ssipation Device Evidence of Poll e. any unauthorize Evidence of Ero ssipation Device Evidence of Poll e. any unauthorized itenance and re- vant task comm Control Measur	epairs, failed control m nent) sion? If "No", describe. s Operating Effectively? lutants in Discharges and d non-stormwater discha sion? If "No", describe. s Operating Effectively? utants in Discharges and d non-stormwater discha epairs, failed control me nents). e is operating effectively?	easures that If "No", I/or If ges? If If "No", I/or rges? If easures that				
Outfall descrip 90 100 110 120 130 140 150 160 Control descript	system. If "No" describe. Inspection (identify needed main tion of corrective actions in rele Monitored Outfall [076] Free of Monitored Outfall [076] Free of Receiving Water? If "No", describ Monitored Outfall [076] Free of "No" describe. Montiored Outfall [077] Free of Montiored Outfall [077] Free of Montiored Outfall [077] Free of Montiored Outfall [077] Free of Receiving Water? If "No", describ Montiored Outfall [077] Free of Montiored Outfall [077] Free of Receiving Water? If "No", describ Montiored Outfall [077] Free of Receiving Water? If "No", describ	ntenance and re evant task comm Evidence of Ero ssipation Device Evidence of Poll e. any unauthorize Evidence of Ero ssipation Device Evidence of Poll e. any unauthorize tenance and re vant task comm Control Measure intenance, Repa Control Measure	epairs, failed control m nent) sion? If "No", describe. s Operating Effectively? lutants in Discharges and d non-stormwater discha sion? If "No", describe. s Operating Effectively? utants in Discharges and d non-stormwater discha epairs, failed control me nents). e is operating effectively' ir, or Replacement. e is operating effectively'	easures that If "No", d/or arges? If If "No", i/or rges? If easures that ? If "No"				
Dutfall descrip 90 100 110 120 130 140 50 60 Control lescript	system. If "No" describe. Inspection (identify needed main tion of corrective actions in rele Monitored Outfall [076] Free of Monitored Outfall [076] Free of Receiving Water? If "No", describ Monitored Outfall [076] Free of "No" describe. Montiored Outfall [077] Free of Montiored Outfall [077] Free of Montiored Outfall [077] Free of Montiored Outfall [077] Free of Receiving Water? If "No", describ Montiored Outfall [077] Free of Montiored Outfall [077] Free of Receiving Water? If "No", describ Montiored Outfall [077] Free of Receiving Water? If "No", describ	ntenance and revent task comm Evidence of Ero ssipation Device Evidence of Poll e. any unauthorize Evidence of Ero ssipation Device Evidence of Poll e. any unauthorized Evidence of Poll e. any unauthorized tenance and revent task comm Control Measure Intenance, Repa Control Measure	epairs, failed control m nent) sion? If "No", describe. so Operating Effectively? utants in Discharges and d non-stormwater discha sion? If "No", describe. s Operating Effectively? utants in Discharges and d non-stormwater discha epairs, failed control me nents). e is operating effectively? ir, or Replacement. e is operating effectively? is operating effectively?	easures that If "No", I/or Irges? If If "No", I/or rges? If easures that ? If "No"				

220	Drop Inlet with Petro-Plug [0300109010003] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	Г	Г	1.
230	EnviroSoxx w/ MetalLoxx [0300103200029] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	Г	Г	14
240	EnviroSoxx w/ MetalLoxx [0300103200030] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	Г	Г	~
250	EnviroSoxx w/ MetalLoxx [0300103200031] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	г	Г	
260	EnviroSoxx w/ MetalLoxx [0300103200032] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	F	F	14
270	EnviroSoxx w/ MetalLoxx [0300103200033] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		Г	14
280	EnviroSoxx w/ MetalLoxx [0300103200034] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	F	F	14
290	EnviroSoxx w/ MetalLoxx [0300103200035] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		Г	14
310	Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.     Transfer areas for substances in bulk: controls adequate (appropriate, effective, and	<u>F</u>	Г	IV.
310	Material loading/unloading and storage areas: controls adequate (appropriate,effective, and operating)? If "No" describe.	E	Г	12
320	operating)? If "No" describe.		Г	14
330	Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe.	Г	F	11
340	Liquid tank storage/secondary containment: controls adequate (appropriate,			
	effective, and operating)? If "No" describe.	Г	Г	~
350	effective, and operating)? If "No" describe. Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		<u>г</u>	<b>I</b>
42	Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe. Equipment operation and maintenance areas: controls adequate (appropriate,			1¥
360	Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	 	Г	<b>1</b>
360 370	Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe. Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe. Fueling areas: controls adequate (appropriate, effective, and operating)? If "No" describe. Outdoor vehicle and equipment washing areas: controls adequate (appropriate,	  	Г  ¥	1¥
360 370 380	Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe. Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe. Fueling areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		Г 12 12	
350 360 370 380 390 400	Industrial processing and finished product storage areas: controls adequate         (appropriate, effective, and operating)? If "No" describe.         Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe.         Fueling areas: controls adequate (appropriate, effective, and operating)? If "No" describe.         Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If "No" describe.         Machinery: controls adequate (appropriate, effective, and operating)? If "No" describe.         Waste handling and disposal areas: controls adequate (appropriate, effective, and			
360 370 380 390	Industrial processing and finished product storage areas: controls adequate         (appropriate, effective, and operating)? If "No" describe.         Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe.         Fueling areas: controls adequate (appropriate, effective, and operating)? If "No" describe.         Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If "No" describe.         Machinery: controls adequate (appropriate, effective, and operating)? If "No" describe.	  		
360 370 380 390 400	Industrial processing and finished product storage areas: controls adequate         (appropriate, effective, and operating)? If "No" describe.         Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe.         Fueling areas: controls adequate (appropriate, effective, and operating)? If "No" describe.         Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If "No" describe.         Machinery: controls adequate (appropriate, effective, and operating)? If "No" describe.         Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If "No" describe.         Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If "No" describe.         Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If "No" describe.	  		
360 370 380 390 400 410	Industrial processing and finished product storage areas: controls adequate         (appropriate, effective, and operating)? If "No" describe.         Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe.         Fueling areas: controls adequate (appropriate, effective, and operating)? If "No" describe.         Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If "No" describe.         Machinery: controls adequate (appropriate, effective, and operating)? If "No" describe.         Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If "No" describe.         Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If "No" describe.         Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If "No" describe.         Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If "No" describe.         Locations and sources of run-on to the site: controls adequate (appropriate, effective,			
360 370 380 390 400 410 420	Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe. Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe. Fueling areas: controls adequate (appropriate, effective, and operating)? If "No" describe. Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If "No" describe. Machinery: controls adequate (appropriate, effective, and operating)? If "No" describe. Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If "No" describe. Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If "No" describe. Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If "No" describe. Salt storage piles or pile containing salt: controls adequate (appropriate, effective,			
360 370 380 390 400 410 420 430	Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe. Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe. Fueling areas: controls adequate (appropriate, effective, and operating)? If "No" describe. Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If "No" describe. Machinery: controls adequate (appropriate, effective, and operating)? If "No" describe. Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If "No" describe. Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If "No" describe. Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If "No" describe. Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If "No" describe.			

Non-Compliance

480	Free of incidents of observed describe.	non-compliance not already	y identified above? If "No"	Г	Г	11
Additi	onal Control Measures					
500	Are permit requirements satis additional control measures r	fied with existing control me needed.	easure(s)? If "No" describe	<b></b>	Г	Ĩ
Labor	Report					
Comp	leted: <u>11/28/2021 1:30:00</u> PM					
Repor	t: Jacob Knight, DEP					
	& Kright	11/30/2021				
l confir	Signature / Name m the information as recorded	Date	Signature / Name		Date	

#### **CERTIFICATION STATEMENT**

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

(Signatory must meet definition in Section B.11.A, eg. FOD, Ops Mgr, DESH Group Leader, EPC Group Leader)

Print name and title: Lacey J. Bruaw, Facility Operations Director

Signature: Lacey J. Bruaw

\_\_\_\_\_Date: 12/7/21

**Maintenance Details** 

#### Work Order MSGP-RI-65449

MSGP Routine Inspection Printed 12/21/2021 - 11:20 AM

	Procedure: MSGP Routine Facility Priority/Type: Normal / Inspection				rogram Metals F	ab Sh	op	
Last Pl								
Project	<ul> <li>Routine Facility Inspections December 2021 (P-MSGP- RI-5538)</li> </ul>			Contact: Phone:				
Reasor	2021 December Inspections							
<b>Fasks</b>								
5	200000							
#	Description				Meas.	No	N/A	Yes
	er Information Describe the weather at time of ins	spection and doc	cument the temperature (F°).					
20	Comments: 44 degrees F and su	inny						1
	the Facility Boundary Is the facility free of previously unio	dentified dischar	ges from and/or pollutants th	at have				
40	occurred since the last inspection I	the second s				Г		11
50 60	If "No" has a CAR been previous	Contraction of the second s				<u></u>	1	<u> </u>
00	Is the facility free of discharge of po Is the facility free of evidence of, or		A REAL PROPERTY AND A REAL			Г		<u> </u>
70	system. If "No" describe.	the potential lo	, polititants entering the drai	hage		Г	Г	1
Outfall descrip 90	Inspection (identify needed maint otion of corrective actions in releva Monitored Outfall [076] Free of E	ant task comme	ent)	es that need r	eplacem	ient, o	ra	12
100	Monitored Outfall [076] Flow Diss describe.			".		F	F	14
110	Monitored Outfall [076] Free of En Water? If "No", describe.	vidence of Pollut	ants in Discharges and/or Re	eceiving		-	F	1
120	Monitored Outfall [076] Free of an describe.	ny unauthorized	non-stormwater discharges?	lf "No"		Г	Г	14
130	Montiored Outfall [077] Free of E	vidence of Erosi	on? If "No", describe.			Г	Г	14
140	Montiored Outfall [077] Flow Diss describe.	ipation Devices	Operating Effectively? If "No"	1		Г	Г	14
150	Montiored Outfall [077] Free of Ev Water? If "No", describe.					Г	Г	12
160	Montiored Outfall [077] Free of an describe.	ny unauthorized	non-stormwater discharges?	lf "No"		Г		12
Control of corre	Measures (identify needed mainte active actions in relevant task com	enance and rep iments).	airs, failed control measur	es that need re	eplacme	nt, or	a desc	ription
180	Asphalt Berm [0300103040014] C describe condition & need for Maint	enance, Repair,	or Replacement.	_		Г	Г	14
190	Asphalt Berm [0300103040028] C describe condition & need for Maint	enance, Repair,	or Replacement.	Sec. And Sec.		Г.	F	14
200	Gravel Bags [0300103100020] Co condition & need for Maintenance, I	Repair, or Repla	cement.			Г	Г	14
210	Base Course Berm [03001030200 describe condition & need for Maint	enance, Repair,	or Replacement.			Г	Г	12
220	Drop Inlet with Petro-Plug [03001 "No" describe condition & need for I	09010003] Cont Maintenance, Re	rol Measure is operating effe	ctively? If		Г	Г	14
230	EnviroSoxx w/ MetalLoxx [030010			ctively? If		Г	17	14

-	"No" describe condition & need for Maintenance, Repair, or Replacement.			
240	EnviroSoxx w/ MetalLoxx [0300103200030] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	F	Ē	~
250	EnviroSoxx w/ MetalLoxx [0300103200031] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	E	Г	~
260	EnviroSoxx w/ MetalLoxx [0300103200032] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.		F	12
270	EnviroSoxx w/ MetalLoxx [0300103200033] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	F	F	14
280	EnviroSoxx w/ MetalLoxx [0300103200034] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	Г	Г	14
290	EnviroSoxx w/ MetalLoxx [0300103200035] Control Measure is operating effectively? If "No" describe condition & need for Maintenance, Repair, or Replacement.	F		14

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

310	Material loading/unloading and storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe, Comments: All metals were covered effectively.	F	Г	12
320	Transfer areas for substances in bulk: controls adequate (appropriate, effective, and operating)? If "No" describe.	Г		14
330	Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe.	Г	Г	~
340	Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe.	F	F	~
350	Industrial processing and finished product storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	F	Г	~
360	Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		Г	12
370	Fueling areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	F	14	F
380	Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	Г	14	
390	Machinery: controls adequate (appropriate, effective, and operating)? If "No" describe.	Г	Г	1
400	Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	Г	Г	14
410	Erodible areas/construction: controls adequate (appropriate, effective, and operating)? If "No" describe.	Ē	Г	14
420	Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If "No" describe.	F	1	14
430	Salt storage piles or pile containing salt: controls adequate (appropriate, effective, and operating)? If "No" describe.	E	1.5	Г
440	Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If "No" describe.	6		14
450	Housekeeping (Industrial materials/residues/trash in contact with stormwater): controls adequate (appropriate, effective, and operating)? If "No" describe. Comments: see CAR # 2060: There was trash strewn around the dumpsters to the north of TA-3-38.	r <b>x</b>	F	
460	Leaks and spills: controls adequate (appropriate, effective, and operating)? If "No" describe.	Г	Г	10
Non-C	ompliance			
480	Free of incidents of observed non-compliance not already identified above? If "No" describe.	Г	Г	1
Additi	onal Control Measures			
500	Are permit requirements satisfied with existing control measure(s)? If "No" describe additional control measures needed.		F	14

Labor Report

12/20/2021 Completed: 3:15:00 PM

Jacob Knight Digitally S Date: 202 -07'00'	igned by Jacob Knight 2.01.04 12:12:30		
Signature / Name	Date	Signature / Name	Date

#### CERTIFICATION STATEMENT

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

(Signatory must meet definition in Section B.11.A, eg. FOD, Ops Mgr, DESH Group Leader, EPC Group Leader)

L06-C5 Sing Group Leader incent Print name and title:\_ Date:\_ inven Signature:

#### ATTACHMENT 8: QUARTERLY VISUAL ASSESSMENTS

# NMR050013 MSGP 2021 TA-3-38 Metals Fabrication Shop

### Quarterly Visual Assessment Forms, First Quarter, July through September 2021

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

Terrill W. Lemke, EPC-CP Storm Water Permitting/Compliance Team Leader

Los Alamos National Laboratory

TERRILL LEMKE Digitally signed by TERRILL LEMKE (Affiliate) (Affiliate) Date: 2021 10:20 12:13:49 -06'00'

Manager Signature

Date

Facility Name	Sampling Station	Work Order #
TA-3-38 Metals Fabrication Shop	MSGP07601	MSGP-65031
TA-3-38 Metals Fabrication Shop	MSGP07701	MSGP-65042

Work Order MSGP-65031

MSGP Monitoring Stations Printed 10/6/2021 - 5:40 PM

#### **Maintenance Details** Requested: 7/6/2021 5:45:00 PM Target: 9/30/2021 🔁 MSGP Program 🚠 RG121.9 Procedure: MSGP Quarterly Visual Priority/Type: / Inspection Assessment (EPC-CP-QP-📥 TA-3-38 Metals Fab Shop Department: Utilities and Infrastructure 2105 R1 Form 1) Anitored Outfall (076) Last PM: 7/6/2021 **MSGP07601** Visual Assessments 7/1/21 **Project:** (P-MSGP-5503) Contact: Reason: MSGP Quarterly Visual Assessment Phone: Tasks

The read				
The resu	It of this VA applies to associated SIOs as defined in the SWPPP, where applicable.			
Sample	information			
30	Document the monitoring period.	July-Sept		
	Document the Date/Time Discharge began in the "Reading" field of this line (using mm/dd/yy hh:mm format).	7/16/21 23:51		
	Document the Date/time sample collected in the "Reading" field of this line (using mm/dd/yy hh:mm format).	7/16/21 23:51		
	Document the Date/time sample visually assessed in the "Reading" field of this line (using mm/dd/yy hh:mm format).	7/19/21 15:03		<b>M</b>
	Document the nature of discharge (e.g., rain, snowmelt). Document the TOTAL amount (in) in the "Reading" field of this line.	rain .15		
	Sample collected in first 30 minutes of discharge? If "Failed" or unknown, provide a reason.			<b>1</b>
Paramet	ters			
110	Is sample colorless? If "Failed", describe.	brown	×	
	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	×	
	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 few fine	×	
160	Is sample free of suspended solids? If "Failed", provide description (e.g., fine, course).			
	Is sample foamless after gently shaking? If "Failed" describe foam color and location (e.g., on the surface' or 'in the sample').			1
	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: 7/19/2021 3:03:00 PM

Report: Marwin Shendo

7/20/2021 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:

Work Order MSGP-65042

**MSGP** Monitoring Stations Printed 10/6/2021 - 5:41 PM

#### **Maintenance Details** Requested: 7/28/2021 3:47:00 PM Target: 9/30/2021 🔁 MSGP Program Procedure: MSGP Quarterly Visual Priority/Type: / Inspection 🚠 RG121.9 Assessment (EPC-CP-QP-Department: Utilities and Infrastructure 📥 TA-3-38 Metals Fab Shop 2105 R1 Form 1) Antiored Outfall (077) Last PM: 7/6/2021 d MSGP07701 **Project:** Visual Assessments 7/1/21 (P-MSGP-5503) **Contact:** Reason: MSGP Quarterly Visual Assessment Phone:

Tasks					
#	Description	Meas.	No	N/A	Yes
The re	esult of this VA applies to associated SIOs as defined in the SWPPP, where applicable				
Samp	le information				
30	Document the monitoring period.	jul-sept			
40	Document the Date/Time Discharge began in the "Reading" field of this line (using mm/dd/yy hh:mm format).	7/27/21 1319			
50	Document the Date/time sample collected in the "Reading" field of this line (using mm/dd/yy hh:mm format).	7/27/21 1319			
60	Document the Date/time sample visually assessed in the "Reading" field of this line (using mm/dd/yy hh:mm format).	7/29/21 1622			
70	Document the nature of discharge (e.g., rain, snowmelt). Document the TOTAL amount (in) in the "Reading" field of this line.	rain 0.25 inch			
80	Sample collected in first 30 minutes of discharge? If "Failed" or unknown, provide a reason.				
Paran	neters				
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).	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).				$\mathbf{V}$
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).				4
190	Is sample free of other obvious indicators of pollution? If "Failed", describe.		Γ		<b>V</b>

#### Labor Report

Completed: 7/29/2021 4:22:00 PM

Report: Marwin Shendo

8/3/2021 Date

Signature / Name

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

#### **CERTIFICATION STATEMENT**

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

#### (Signatory must meet definition in Section B.11.A, eg. FOD, Ops Mgr, EPC Group or Team Leader)

Print name and title: Terrill W. Lemke, EPC-CP Storm Water Permiting/Compliance Team Leader

Signature: (See signature on file) Date:

ATTACHMENT 9: CORRECTIVE ACTION DOCUMENTATION AND CERTIFICATION

Msgp CA# Facility	Inspection Date	EPC Notify Date	Specific Location	Inspector Name	Identifying Name	Finding Description	Problem Description	Inspection Type	Corrective Action Description	Corrective Action Initiate Date	Correctiv Action Complete Date
TA-3-38 Metals Fab. 1993 Shop	27-Jul-21	27-Jul-21		KNIGHT JACOB L	KNIGHT JACOB L	Control measures inadequate to meet non- numeric effluent limitations	Inside the metal fab yard outside of TA-3-38 there are several stacks of rebar. On the east end of the stacks about 2 ft of the rebar was exposed to precipitation, likely due to wind blowing the tarp.		Cover the ends of the rebar and weight the end of the tarp so it stays covered during rain events. The ends were fully covered by 2:30 pm	27-Jul-21	27-Jul-21
TA-3-38						Control measures inadequate to meet non- numeric	Pipe fitters metal storage along area along the fence line on the north perimeter of 3- 38 is uncovered and exposed. Rain is in the forecast. The	Routine	Cover the exposed metal properly and clean up debris/trash.		
Metals Fab. 2003 Shop TA-3-38	30-Aug-21	30-Aug-21		KNIGHT JACOB L	KNIGHT JACOB L	effluent limitations Control measures inadequate to meet non- numeric	area needs housekeeping cleanup as well. There are small pieces of metal debris on the ground near the metal recycle bin inside the metal fab storage	facility inspection Routine	This was completed by COB same day. The area needs to be swept with a magnet. This was completed	30-Aug-21	30-Aug-21
Metals Fab. 2011 Shop	21-Sep-21	21-Sep-21		KNIGHT JACOB L	KNIGHT JACOB L	effluent limitations Control measures inadequate to	0	facility inspection	morning of 09/22/2021. Pick up the trash and	21-Sep-21	22-Sep-21
TA-3-38 Metals Fab. 2060 Shop	20-Dec-21	20-Dec-21	North of TA- 3-38 by the trash dumpsters.	WHEELER HOLLY L	WHEELER HOLLY L	meet non- numeric effluent limitations	There is trash strewn around the dumpsters to the north of TA-3-38.	Routine facility inspection	place it in the dumpster. Roads and grounds completed trash pick up.	20-Dec-21	21-Dec-22

CorrectiveCorrectiveActionActionInitiateCompleteDateDate

## **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 Nam	ne: Brian Watkins		Title:	Logistics Division Leader	
E Signature: (,		Digitally signed by BRIAN WATKINS (Affiliate) Date: 2022.01.31 08:37:19 -07'00'	Date:	1/31/2022	

#### ATTACHMENT 10: SCHEDULED MAINTENANCE LOG

Date	Control Measure or Equipment Description (include location where appropriate)	Action Taken/Comments	Action Taken By (printed name & Z no.)
7/23/21	Pavement sweeping	Swept with pick up sweeper truck	R&G
8/27/21	Pavement sweeping	Swept with pick up sweeper truck	R&G
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
			Page 1 of X

#### ATTACHMENT 11: TRAINING DOCUMENTATION

Information on employees receiving training is available upon request

#### AGENDA

#### FOR

#### TA-03-38 Metal Fabrication Shops MSGP TRAINING

- 1. Brief overview of the National Pollutant Discharge Elimination System, Multi-Sector General Permit (MSGP)
  - a. The MSGP is a nation-wide general permit
  - b. New permit was issued in January of 2021
    - LANL received authorization to discharge stormwater from specific industrial activities, to meet Clean Water Act provisions under the new permit, on June 25, 2021
  - c. EPA is the regulatory authority
    - i. NM Environment Department is delegated authority to conduct inspections for them.
  - d. This facility falls under Sector AA Fabricated Metal Products
    - i. Because the MSGP is a "general" permit, every Metal Fabrication Shop authorized to discharge under the MSGP has to meet the same requirements.
- 2. Purpose of the MSGP is to MINIMIZE off-site migration of pollutants
  - a. Ensure controls are always adequate and functional (not just after identification of a condition requiring corrective action)
- 3. Key Elements of the MSGP
  - a. Industrial sites must have a Stormwater Pollution Prevention Plan (SWPPP)
  - b. Stormwater discharge from the site is monitored and analytical results are reported to EPA
  - c. Monthly inspections are performed at the site by Kelkenny Bileen (your Deployed Environmental Professional)
  - d. Conditions requiring corrective action are identified, documented, and addressed
    - i. These could include housekeeping issues (presence of trash, shavings or small metal pieces found on the ground, abandoned materials or equipment, etc.
    - ii. Raw material not appropriately covered
    - iii. Spill identified
    - iv. Permit limit exceedance for constituents monitored for as described in Section4.7 of the SWPPP (i.e., aluminum, copper, Nitrate-Nitrite, zinc)
  - e. Training requirement
    - i. The permit requires personnel who implement requirements of the permit to be trained
    - ii. You all are or will be managing industrial materials (raw material metal, new and used oil lubricants, gasoline, metal recycle and other dumpsters, etc.) and conducting activities on an industrial site (TA-3-38 metal fabrication)
- 4. What does the SWPPP do?
  - a. Identifies a Pollution Prevention Team

- i. This team consists of Jacob Knight (DEP), Ed Vigil, Mark Powell, Ray Lujan, Jacob Vigil, and Holly Wheeler (MSGP Program Lead). Together, this team is instrumental in ensuring implementation of the MSGP, SWPPP, and associated stormwater controls.
- b. Identifies potential pollutant sources
  - i. Vehicle or equipment pollutants (spills of fuel, oil, grease, fluids (transmission and hydraulic), anti-freeze and associated heavy metals
  - ii. Storage of raw material (metal for fabrication)
  - iii. The metal for recycle roll-off bin
  - iv. Dumpsters containing trash and/or cardboard
  - v. Sediment
- c. Describes stormwater controls used to reduce/eliminate pollutants in stormwater discharges
  - i. Review SWPPP map and walk down controls at the site. Discuss their purpose and when they should be repaired or replaced.
    - 1. Covered dumpsters
    - 2. Tarps, canopies
    - 3. Metallox wattles
    - 4. Rip Rap rundowns and drainages
    - 5. Asphalt berms
    - 6. Gravel bags
    - 7. Routine maintenance like sweeping of sediment loaded areas or where metal fines may accumulate after fabrication
- d. Contains procedures the site uses to comply with the terms/conditions of the permit
  - i. Procedures by EPC-CP specifically identifying how permit conditions are implemented
    - a. How to conduct inspections, spill investigations, visual assessments, document conditions requiring corrective actions, obtain samples, etc.
- e. Contains documentation that permit requirements have been met, including:
  - i. NOI and associated correspondence
  - ii. Completed visual assessments and Routine Facility Inspections
  - iii. Annual reports
  - iv. All documentation associated with conditions requiring corrective action
  - v. Maintenance of control measures
  - vi. Documentation of training given
- 5. What can you do to ensure good housekeeping requirements in the MSGP are met?
  - a. Keep the outside area of the Metals Fabrication area and storage yards in an orderly condition.
  - b. Pick up garbage, debris, and floatables when observed on-site and in drainages.
  - c. Keep dumpsters covered.
  - d. Monitor tarp covers.
  - e. Only use well maintained trucks and heavy equipment for transfer operations.
- 6. What are industrial materials and activities?

- a. Metal, cutting oil, welding supplies and other products used during metal fabrication;
- b. Chemiacal storage areas;
- c. Raw metal storage;
- d. Locations where trash and debris is stored;
- e. Metal for recycling bins;
- f. Locations of material handling equipment;
- g. Fabrication areas;
- 7. How can you properly manage industrial materials?
  - a. Keep raw metal and fabricated product inside a building or covered.
    - i. Replace tarps as needed.
    - ii. Contain fines from cutting, grinding and welding on a tarp or sweep fabrication areas and remove fines after fabrication work.
    - iii. 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.
    - iv. Do not overfill the metal for recycle roll off bin.
  - b. Potential for spills to occur from equipment.
    - i. (Ask Trainees what they would do if the noticed a truck, forklift, or front-end loader was leaking).
      - 1. Call the EPC-CP spills pager at 505-664-7722.
      - 2. Provide immediate spill response with spill kits.
      - 3. All complex/emergency spills or releases are reported to the Emergency Operations Support Center (EOSC) at 667-2400.
      - 4. For fire or explosion, call 911 or activate fire pull box.
      - 5. Clean up spill. If too large call your Waste Management Coordinator and/or the EOSC
      - 6. The EOSC, FOD and EPC-CP will determine if required notification are needed relative to the spill.
- 8. Contact information.
  - a. Contact Jacob (257-8985), the Deployed Environmental Professional, if you have any questions about environmental requirements.
  - b. Contact Holly Wheeler (667-1312) or <u>hbenson@lanl.gov</u>) for specific questions about the MSGP.

#### ATTACHMENT 12: MSGP (OR ACTIVE URL)

The active URL for the permit is:

2021 Multi-Sector General Permit

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

LA-UR-17-29454 Approved for public release; distribution is unlimited.

October2017

# Threatened and Endangered Species Habitat Management Plan for Los Alamos National Laboratory





Cover photo: Mexican Spotted Owls at Los Alamos National Laboratory

## Prepared by: Environmental Protection and Compliance Division Resources Management Team Los Alamos National Laboratory

Prepared for: U.S. Department of Energy, National Nuclear Security Administration, Los Alamos Field Office

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## ACRONYMS AND TERMS

AEI	area of environmental interest		
Bd	Batrachochytrium dendrobatidis (Chytrid Fungus)		
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		
Field Office	U.S. Department of Energy Los Alamos Field Office		
FR	Federal Register		
GIS	geographic information system		
HMP	Threatened and Endangered Species Habitat Management Plan		
HVAC	heating, ventilation, and air conditioning		
LANL	Los Alamos National Laboratory		
LANS	Los Alamos National Security, LLC		
NEPA	National Environmental Policy Act of 1969		
PCBs	polychlorinated biphenyls		
TNT	trinitrotoluene(2,4,6-)		
USFWS	U.S. Fish and Wildlife Service		

## I. THREATENED AND ENDANGERED SPECIES HABITAT MANAGEMENT PLAN GENERAL OVERVIEW

## 1.0 Introduction

Los Alamos National Laboratory's (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 2017 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 with 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 trailii 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 50 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 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 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). AEIs 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 causing

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-m (49-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, such as the firing sites.

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 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 current 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 is allowed in buffer areas. Under the guidelines of this HMP, individual development projects are limited to 2 ha (5 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). New development projects in AEI buffer areas must be reported to Los Alamos National Security, LLC (LANS) biologists for tracking

(http://int.lanl.gov/environment/bio/controls/index.shtml).

## 3.3 Emergency Actions

Managers may activate emergency actions if safety and/or property is immediately threatened by something occurring within an AEI (for example, wildfire, water line breakage, etc.). Contact a LANS biologist (<u>http://int.lanl.gov/environment/bio/controls/index.shtml</u>), the Environmental Stewardship Group (505-665-8855), or the DOE Los Alamos Field Office (Field Office; 505-667-6819) as soon as possible. If the emergency occurs outside of regular business hours, contact

the Emergency Management Office (505-667-6211); this office will then communicate with the appropriate LANL and DOE 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 1 illustrates the process for utilizing site plans. If activities follow approved guidance, there is no requirement for additional ESA regulatory compliance. However, additional National Environmental Policy Act (NEPA), cultural resources, wetlands, or other regulatory compliance actions may be required.

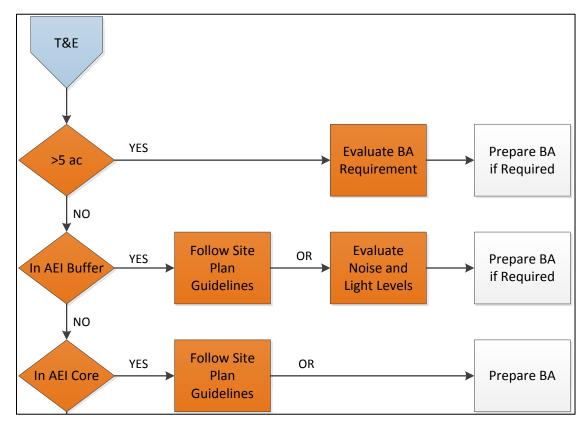


Figure 1. Process flowchart for determining site plan requirements

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. 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 area 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 Program Description 400 (LANL 2016) and allows managers to identify the requirements within their project area. Deployed environmental professionals and core LANS 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. 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. Contacts can be found at http://int.lanl.gov/environment/compliance/ier/index.shtml.

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 If an Activity Does Not Meet Site Plan Guidelines

If a project reviewer determines that an activity or project cannot meet the guidelines in applicable site plans, LANS biologists evaluate that activity individually for compliance with the ESA. Results of the evaluation of potential impacts allow LANS biologists to make recommendations to the DOE Field Office Biological Resources Program Manager regarding the need for USFWS consultation. An evaluation may result in 1) a DOE Field Office determination that there is no effect and the activity can proceed, 2) a DOE Field Office suggestion for modifications of the action to avoid adverse effects so that it can proceed, or 3) a DOE Field Office 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 a few months with an additional 2 to 12 months for DOE 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 resulting from long-term drought and fire effects (USFWS consultation number 02ENNM00-2017-I-0255).

## 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 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 53181).

## 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 may 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 nesting in canyons consists primarily of woodrats (*Neotoma* spp.) and deermice (*Peromyscus* spp.) with lesser amounts of rabbits, birds, reptiles, and arthropods (Willey 2013). The relative abundance of prey types in Mexican Spotted Owl pellets collected at LANL are listed in Table A-1 in the appendix. Ganey and Balda (1994) found 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 had recent agricultural or forest product extraction land uses. Therefore, Mexican Spotted Owls are generally 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 containing paved or dirt roads in the canyon bottoms have not been occupied at LANL (Hathcock et al. 2010).

## 2.2.2 Ecological Risk

There is no specific information 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).

LANS subject matter experts completed three ecological risk assessments that included the Mexican Spotted Owl between 1997 and 2009. 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 is expected to Mexican Spotted Owls from chemicals of potential concern (Gallegos et al. 1997; Gonzales et al. 2004; Gonzales et al. 2009).

## 2.2.3 Disturbance

## 2.2.3.1 Pedestrians and Vehicles

Based on work with other raptors, LANS 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 to 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 may 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. LANS biologists found that AEIs are occupied less often if there is recreational access into a canyon (Hathcock et al. 2010).

## 2.2.3.2 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.

## 2.2.3.3 Explosives

There is currently no specific information 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 decibel (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-g (5.89-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-kg (44-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 decibel [dB(A)]<sup>1</sup> to a range between 64 and 71 dB(A) during shots at a distance of 1.8 km (1.1 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). LANS 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). LANS 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). This is likely due to the strict access control in explosives areas that limit human activity and development in the canyon bottoms.

<sup>&</sup>lt;sup>1</sup>Sound can be measured as decibels (dB), C-weighted dB [dB(C)], or A-weighted dB [dB(A)]. The dB(A) measurement best resembles the response of the human ear by filtering out lower and higher frequency sound not normally heard by the human ear.

#### 2.2.3.4 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 sediment control features such as berms and small rock check dams to be installed at various sites with stormwater runoff; these are sometimes installed in protected habitat. LANS biologists conducted a study of noise levels in canyons and found that the primary sources of noise exceeding 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, LANS 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 am) 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).

LANS 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 43–81 dB(C)]. The average background noise in the canyon bottom was 62.3 dB(C) [with a range of 54–78 dB(C)]. The average background noise at the bottom of the north-facing slope was 53.8 dB(C) [with a range of 48–64 dB(C)]. Measurements were taken mid-day.

LANS 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).

LANS 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.

LANS 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. Noise from the 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 at Canyon or on the south rim.

LANS biologists took sound level measurements around the LANL Biosafety Level 3 laboratory with the heating, ventilation, and air conditioning (HVAC) system on and with it off (Hansen 2009). The area to the north of the Biosafety Level 3 laboratory 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.

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).

## 2.2.3.5 Artificially Produced Light

There is no information 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 off-site 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 fc.

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 may 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. LANS biologists compared the results from the Johnson (1998) model to a different model identifying 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 over five contiguous  $30 \times 30$  m ( $97 \times 98$  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.

An updated Mexican Spotted Owl habitat model was developed and refined for application on LANL property following the Cerro Grande wildfire (Hathcock and Haarmann 2008). This model incorporated finer-scale vegetation characteristics into the Mexican Spotted Owl habitat quality assessment. This model 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 Part I, Section 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 or not 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 or not 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 may 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 causing habitat alterations are restricted in all AEIs, disturbance activities are restricted only in occupied AEIs. The Activity Table (Table 1, Section 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 LANS biologist to find out the current occupancy status of an AEI (http://int.lanl.gov/environment/bio/controls/index.shtml).

## 4.3 Introduction to AEI Management Guidelines

Sections 4.4 and 4.5 provide the guidelines for habitat alterations and allowable activities in AEI core and buffer areas. Section 4.4 describes what and where habitat alterations are allowed under the guidelines of this site plan. Section 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 only provides 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 4.6 describes management practices that should be applied when working or considering work in an AEI. LANS biologists are available to answer questions and provide advice

(http://int.lanl.gov/environment/bio/controls/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 one year. For physical disturbances, in general, any activity that can be accomplished by one person with a hand tool is generally 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 a 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  $\geq 6 \text{ dB}(A)$  during any portion of the 24-hour day, or it increases average light levels by  $\geq 0.05$  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 cm (9 in) diameter at breast height, treatment of fuels, and prescribed and natural prescribed fires are allowed. Exceptions allowing 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 not meeting 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, LANS 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 over 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). Fuels management activities that are allowable in core areas must be reported to LANS biologists for tracking (http://int.lanl.gov/environment/bio/controls/index.shtml).

## 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 (Trujillo and Racinez 1995). New utility lines and utility lines requiring 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 1, Section 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 2.2.3). Projects in the buffer area over 2 ha (5 ac) in size will require individual ESA compliance review.

Habitat alterations in a buffer area other than the fuels management and utility corridor maintenance described above must be reported to LANS biologists for tracking (<u>http://int.lanl.gov/environment/bio/controls/index.shtml</u>). There is a cumulative maximum area that can 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

LANS 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). LANS 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. LANS 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 1, Section 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 one 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 one 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 one 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 one 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 one 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. LANS 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 a month from March 1 and August 31. There are no restrictions on daytime explosives testing between 400 and 800 m (1,312 to 2,624 ft). There are no restrictions between September 1 and February 28 or in unoccupied habitat. Explosives detonation adjacent to AEIs that have not previously been recorded by LANS 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 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 LANS biologists to find out occupancy status of AEIs and what locations are within 400 m (1,312 ft) of nest sites (http://int.lanl.gov/environment/bio/controls/index.shtml).

	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 (se	· · · · · ·	1)	

onation (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 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 leading into AEIs labeling them as restricted access areas and provide 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 Levels of Development in AEI Core and Buffers

#### 5.1 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.

*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. 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 (1295 ac) of buffer habitat. Of that, 21 ha (52 ac) of the current core is developed and 71 ha (176 ac) of the current buffer is developed.

*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. 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, 27 ha (67 ac) of the current core is developed and 89 ha (220 ac) of the current buffer is developed.

*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. 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, 64 ha (158 ac) of the current core is developed and 129 ha (319 ac) of the current buffer is developed.

*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, LANS biologists recommended only an additional 38.1 ha (94.1 ac) of the buffer be developed 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, 44 ha (110 ac) of the current core is developed and 83 ha (206 ac) of the current buffer is developed.

*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, LANS biologists recommended only 64.3 ha (158.8 ac) additional area of buffer be developed 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, 11 ha (29 ac) of the current core is developed and 36 ha (91 ac) of the current buffer is developed.

## 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 one-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 may occur where Southwestern Willow Flycatchers are still breeding. Therefore, it is only during a short period of the breeding season (approximately June15 through July 20) that a Willow Flycatcher seen within Southwestern Willow Flycatcher range is probably of that subspecies (USFWS 2002).

The Southwestern Willow Flycatcher only nests 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 resulting 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. There has been extensive degradation of the riparian zone along the Rio Grande caused by feral cattle grazing and flood control operations at Cochiti Lake. There are other riparian/wetland areas on LANL property 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.

## 2.2.2.1 Ecorisk Assessment

LANS 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 indicates a small potential for impacts from chemicals. The primary chemicals driving 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

#### 2.2.3.1 Pedestrians and Vehicles

There is no specific information 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).

## 2.2.3.2 Aircraft

There is no specific information 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.

## 2.2.3.3 Explosives

There is no specific information 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.

#### 2.2.3.4 Other Sources of Noise

LANS 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 Part I, Section 2.2.3.

## 2.2.3.5 Artificially Produced Light

There is no information 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 off-site 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 Part I, Section 2.3) 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 or not 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 or not an AEI is occupied during a species' period of sensitivity. For Southwestern Willow Flycatchers, LANS biologists are primarily concerned with protecting the birds from disturbance during the breeding season. Because individuals may 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 causing habitat alterations are always restricted, disturbance activities are restricted only in occupied AEIs. The Activity Table (Table 2, Section 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 2 indicate the time period during which the activity is restricted. Contact a LANS biologist to find out the current occupancy status of an AEI (http://int.lanl.gov/environment/bio/controls/index.shtml).

# 4.3 Introduction to AEI Management Guidelines

Sections 4.4 and 4.5 provide the guidelines for habitat alterations and allowable activities in AEI core and buffer areas. The flowchart (see Figure 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 4.4) describes what and where habitat alterations are allowed under the guidelines of this site plan. The section and table on allowable activities (Section 4.5 and Table 2) 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 only provides guidelines for the Southwestern Willow Flycatcher AEI. If an activity is desired in an area with overlapping AEIs, all applicable site plans must be consulted. Section 4.6 describes management practices that should be applied when working or considering work in an AEI. LANS biologists are available to help interpret site plans and answer questions (<u>http://int.lanl.gov/environment/bio/controls/index.shtml</u>).

# 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 the alteration lasts for more than one 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 (Trujillo and Racinez 1995). New utility lines and utility lines requiring 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 2, Section 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. Habitat alterations in a buffer area other than fuels management activities or utility corridor maintenance must be reported to a LANS biologist for tracking (http://int.lanl.gov/environment/bio/controls/index.shtml).

## 4.5 Definition of and Restrictions on Disturbance Activities

## 4.5.1 Definition of Disturbance Activities

LANS 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 there are no explosives testing sites 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 one 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 one 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 one 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 one 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 one 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 2) 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 LANS biologist

(http://int.lanl.gov/environment/bio/controls/index.shtml).

	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*

# Table 2. Restrictions on Activities in Undeveloped OccupiedSouthwestern Willow Flycatcher AEI

\* 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

Since 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. There are two areas in which restrictions on habitat alteration are relaxed.

- 1. The mesa top of Mesita del Buey. This mesa top can be developed as long as restrictions on impacts to the core area are met.
- 2. 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. LANS biologists encourage the growth of willow throughout the AEI—even the area along Pajarito Road—to enhance habitat. If, within this area, it is absolutely necessary to remove new willow growth (i.e., to improve visibility for human safety), LANS 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

The Jemez Mountains Salamander was listed in New Mexico as endangered under the Wildlife Conservation Act of New Mexico in 2006 (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 was 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 occur in New Mexico. It occurs 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 consisting 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. There is a secondary paved road (West Road) in the bottom of the canyon that 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 bike. 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 may 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 wildcaught 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 may 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).

# 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 may occur at LANL. The core habitat consists of sections of north-facing slope that contain the required micro-habitat to

support 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 only selected 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. Since the Jemez Mountains Salamander needs cool moist conditions, an illumination index model would further highlight areas where this habitat type may occur or further reinforce the areas selected by the GIS modeling. The illumination index describes the amount and extent of solar radiation reaching the Earth's surface at a given point. This takes into account the topography that may 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 pm, 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, LANS 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). There have been changes in habitat from fire and extreme drought effects since this landcover map was published. Since 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 LANS 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 LANS 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 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 of 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, since 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. There are two noncontiguous areas of habitat 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 or not 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, sitespecific surveys will be conducted by federally permitted LANS 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 may 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 LANS 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 LANS biologists to ensure that there are no impacts to the core habitat.

# 4.5 Emergency Actions

If safety and/or property are immediately threatened by something occurring within an AEI (for example, wildfire, water line breakage, etc.) please contact a LANS biologist (505-665-3366) as soon as possible. If the emergency occurs outside of regular business hours, contact the Emergency Management Office (505-667-6211). This office will then communicate with the appropriate LANS 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 only provides guidelines for the Jemez Mountains Salamander 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. LANS biologists are available to help interpret site plans and answer questions (http://int.lanl.gov/environment/bio/controls/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 LANS 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 LANS 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 on-site to aid in soil moisture retention. Thinning activities should not occur during the rainy season between July to October (or when freezing temperatures begin, whichever comes first) when the Jemez Mountains Salamander is found on the surface.

In buffer areas, thinning of trees can occur to the current LANL-approved prescription level (LAAO 2000). LANS biologists are available to provide guidance and mark trees for thinning (http://int.lanl.gov/environment/bio/controls/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 (Hathcock 2013). This level is approved in all areas of an AEI. New utility lines and utility lines requiring 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 LANS biologists to ensure that there are no impacts to core habitat.

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# APPENDIX

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-1.The Percentage of each Food Type Found in Mexican Spotted Owl<br/>Food Remains at LANL

		Distance from Source			
	Source (street light)	5 m	10 m	15 m	20 m
ftc	3.70	2.28	1.20	0.62	0.32

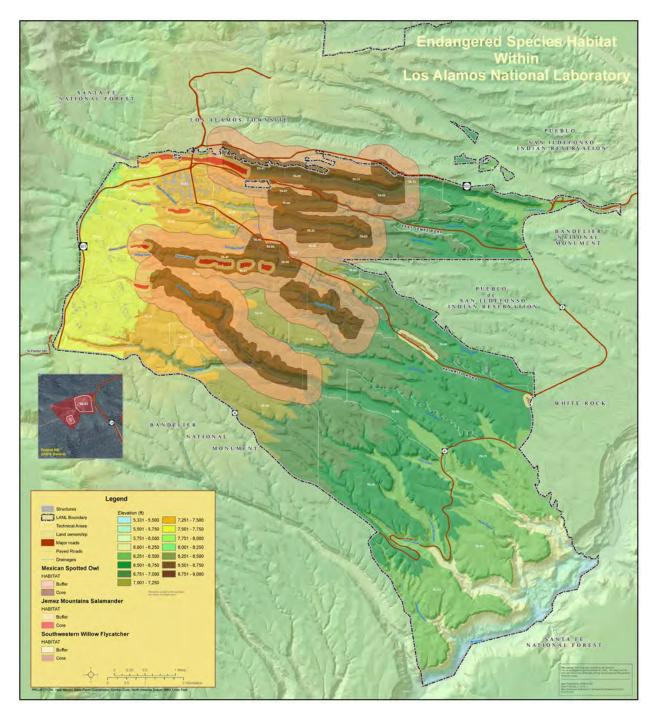


Figure A-1. Most recent map of all AEIs at LANL

#### ATTACHMENT 14: MSGP IPAC TRUST RESOURCES REPORT

# MSGP

# IPaC Trust Resource Report

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# US Fish & Wildlife Service IPaC Trust Resource Report



# **Project Description**

### NAME

MSGP

PROJECT CODE LXATM-TI5EJ-BAJEQ-3NC5E-SOGYTE

### LOCATION

Los Alamos County, New Mexico

### DESCRIPTION

Facilities that discharge to Sandia Canyon within TA-3 and TA-60. Industrial facilities subject to the MSGP. July, 2015.

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# U.S. Fish & Wildlife Contact Information

Species in this report are managed by:

# New Mexico Ecological Services Field Office

2105 Osuna Road Ne Albuquerque, NM 87113-1001 (505) 346-2525

# **Endangered Species**

Proposed, candidate, threatened, and endangered species that are managed by the <u>Endangered Species Program</u> and should be considered as part of an effect analysis for this project.

This unofficial species list is for informational purposes only and does not fulfill the requirements under <u>Section 7</u> of the Endangered Species Act, which states that Federal agencies are required to "request of the Secretary of Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action." This requirement applies to projects which are conducted, permitted or licensed by any Federal agency.

A letter from the local office and a species list which fulfills this requirement can be obtained by returning to this project on the IPaC website and requesting an Official Species List from the regulatory documents section.

# Amphibians

Jemez Mountains Salamander Plethodon neomexicanus				
CRITICAL HABITAT There is <b>final</b> critical habitat designated for this species.				
https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=D019				
Birds				
<b>Mexican Spotted Owl</b> Strix occidentalis lucida CRITICAL HABITAT There is <b>final</b> critical habitat designated for this species.	Threatened			
https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=B074				
Southwestern Willow Flycatcher Empidonax traillii extimus CRITICAL HABITAT There is final critical habitat designated for this species. https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=B094	Endangered			
Yellow-billed Cuckoo Coccyzus americanus CRITICAL HABITAT There is proposed critical habitat designated for this species. https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=B06R	Threatened			
Mammals New Mexico Meadow Jumping Mouse Zapus hudsonius luteus CRITICAL HABITAT	Endangered			
There is <b>proposed</b> critical habitat designated for this species. https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=A0BX				

# **Critical Habitats**

Potential effects to critical habitat(s) within the project area must be analyzed along with the endangered species themselves.

There is no critical habitat within this project area

# **Migratory Birds**

Birds are protected by the <u>Migratory Bird Treaty Act</u> and the Bald and Golden Eagle Protection Act.

Any activity which results in the take of migratory birds or eagles is prohibited unless authorized by the U.S. Fish and Wildlife Service (<u>1</u>). There are no provisions for allowing the take of migratory birds that are unintentionally killed or injured.

You are responsible for complying with the appropriate regulations for the protection of birds as part of this project. This involves analyzing potential impacts and implementing appropriate conservation measures for all project activities.

Bald Eagle Haliaeetus leucocephalus	Bird of conservation concern
Season: Wintering	
https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=B008	
Bendire's Thrasher Toxostoma bendirei	Bird of conservation concern
Season: Breeding	
Brewer's Sparrow Spizella breweri	Bird of conservation concern
Season: Migrating	
https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=B0HA	
Brown-capped Rosy-finch Leucosticte australis	Bird of conservation concern
Season: Wintering	
Burrowing Owl Athene cunicularia	Bird of conservation concern
Season: Breeding	
Cassin's Finch Carpodacus cassinii	Bird of conservation concern
Year-round	
Flammulated Owl Otus flammeolus	Bird of conservation concern
Season: Breeding	
https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=B0DK	
Fox Sparrow Passerella iliaca	Bird of conservation concern
Season: Wintering	
Golden Eagle Aquila chrysaetos	Bird of conservation concern
Year-round	
https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=B0DV	
Grace's Warbler Dendroica graciae	Bird of conservation concern
Season: Breeding	
Juniper Titmouse Baeolophus ridgwayi	Bird of conservation concern
Year-round	
Lewis's Woodpecker Melanerpes lewis	Bird of conservation concern
Year-round	
Loggerhead Shrike Lanius Iudovicianus	Bird of conservation concern
Year-round	
https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=B0EY	

Mountain Plover Charadrius montanus Season: Breeding <u>https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=B078</u>	Bird of conservation concern
Olive-sided Flycatcher Contopus cooperi Season: Breeding https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=B0AN	Bird of conservation concern
Peregrine Falcon Falco peregrinus Season: Breeding <u>https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=B0FU</u>	Bird of conservation concern
<b>Pinyon Jay</b> Gymnorhinus cyanocephalus Year-round	Bird of conservation concern
Prairie Falcon Falco mexicanus Year-round https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=B0ER	Bird of conservation concern
Swainson's Hawk Buteo swainsoni Season: Breeding https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=B070	Bird of conservation concern
Williamson's Sapsucker Sphyrapicus thyroideus Season: Breeding https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=B0FX	Bird of conservation concern
Willow Flycatcher Empidonax traillii Season: Breeding https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=B0F6	Bird of conservation concern

# Refuges

Any activity proposed on <u>National Wildlife Refuge</u> lands must undergo a 'Compatibility Determination' conducted by the Refuge. If your project overlaps or otherwise impacts a Refuge, please contact that Refuge to discuss the authorization process.

There are no refuges within this project area

# Wetlands

Impacts to <u>NWI wetlands</u> and other aquatic habitats from your project may be subject to regulation under Section 404 of the Clean Water Act, or other State/Federal Statutes.

Project proponents should discuss the relationship of these requirements to their project with the Regulatory Program of the appropriate <u>U.S. Army Corps of Engineers District</u>.

#### 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.

There are no wetlands identified in this project area

# ATTACHMENT 15: EPC-CP-PIP-2101, NPDES MULTI-SECTOR GENERAL PERMIT PROGRAM IMPLEMENTATION PLAN



Effective Date: 10/20/2021

# Environment, Safety, Health, Quality, Safeguards and Security Directorate

**Environmental Protection and Compliance Division – Compliance Programs Group** 

**Program Implementation Plan (PIP)** 

# NPDES Multi-Sector General Permit

Name:	Organization:	Signature:	Date:
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Derivative	Classifier: 🖂	Unclassified or 🗌	
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### **Document Owner/Subject Matter Expert:**

NPDES Multi-Sector General	No: EPC-CP-PIP-2101	Page 2 of 35
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#### **REVISION HISTORY**

Document Number and Revision	Effective Date	Description of Changes
ENV-RCRA-QAPP-MSGP, R0	06/03	New Document.
ENV-RCRA-QAPP-MSGP, R1	12/05	Annual review and revision.
ENV-RCRA-QAPP-MSGP, R2	07/07	Annual review, incorporated organizational restructure changes.
ENV-RCRA-QAPP-MSGP, R3	07/09	Biennial Review and Revision.
ENV-RCRA-QAPP-MSGP, R4	07/09	Biennial Review and Revision.
ENV-CP-QAPP-MSGP, R5	10/13	Biennial Review and Revision. New format implemented.
EPC-CP-PIP-2101, R0	01/19/2021	Initial issue under this document number. It supersedes/replaces ENV-CP-QAPP-MSGP, R5. Changes include revision to the document template, addition of MLs, software requirements, and detail to Section 4.5.
EPC-CP-PIP-2101 R1	10/20/2021	Update to procedure numbers and Attachment 2. Deletion of Appendices B, C and D with associated update to text in Section 3.3.2.

Revision: 1

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### 1.0 PURPOSE

This document describes the Program Implementation Plan (PIP) for the National Pollutant Discharge Elimination System (NPDES) Multi-Sector General Permit (MSGP) Program at Los Alamos National Laboratory (LANL or the Laboratory). Performance of the processes and procedures described herein, are in accordance with EPC-CP-QAP-001, *Environmental Compliance Programs Quality Assurance Plan*. This PIP provides detail and context regarding the implementation of those work activities generally described in EPC-CP-QAP-001. Work conducted under this program ensures compliance with the MSGP and the Clean Water Act.

### 2.0 AUTHORITY AND APPLICABILITY

### 2.1 Authority

This document is issued under the authority of the Environmental Protection and Compliance Division's Compliance Programs Group Leader to direct the management and operation of the MSGP Program.

### 2.2 Applicability

This PIP applies to personnel performing work by or for the MSGP Program, including but not limited to Triad National Security, LLC (Triad) employees, subcontractors and suppliers at all tiers (in accordance with subcontract documents), students, guests, and associates.

### 3.0 PROGRAM SCOPE

The MSGP Program is responsible for compliance oversight of Triad's NPDES MSGP, coordination and performance of institutional MSGP stormwater compliance activities, and developing and implementing institutional standards and policies regarding MSGP stormwater management. EPC-CP is the institutional point of contact regarding MSGP environmental compliance interactions with entities outside of LANL (i.e., regulatory agencies, stakeholders, and the public).

### 3.1 Requirements

The MSGP Program satisfies requirements contained in the following documents:

- EPC-CP-QAP-001, Section 3.3
- NPDES MSGP
- Title 40 of the Code of Federal Regulations (CFR) Part 136, *Guidelines Establishing Test Procedures for the Analysis of Pollutants*
- Title 20, Chapter 6, Part 4 of the New Mexico Administrative Code (NMAC), Standards for Interstate and Intrastate Surface Waters

### **3.2** Description of Work Activities

Triad will implement the monitoring requirements specified by the most current NPDES MSGP for industrial activities at LANL. The EPC-CP Storm Water Permitting/Compliance Team oversees institutional stormwater compliance related activities at the Laboratory.

### 3.3 Graded Approach

The following sections provide reference to the applicable Management Level Determinations and Software Risk Level forms.

### 3.3.1 Management Level Determination

The following Management Level Determinations are applicable to equipment and/or work activities for the MSGP Program (see Appendix A):

• ML-4, per MLDS No.: MLDS-TA-60-324, Revision 0.

### 3.3.2 Software Risk Levels

The Environmental Information Management (EIM), Maintenance Connection, and MSGP Corrective Action Oracle APEX software do not trigger any of the Reasonable Probability Criteria from P1040, Section 3.3.1. Therefore, the completion of a Safety/Non-Safety Determination, Categorization, and Software Risk Level (SRL) (Form 2033) is not required and the software is considered Non-Safety/Commercially Controlled.

# 4.0 PROGRAM-SPECIFIC QUALITY ASSURANCE REQUIREMENTS AND IMPLEMENTING WORK ACTIVITIES

Based on the Graded Approach results referenced above, this PIP is determined to be consistent with the work activity types covered by EPC-CP-QAP-001, Section 3.3. Attachment 1 presents a summary of the work practices (procedures, instructions, etc.,) that EPC-CP uses to meet the quality assurance (QA) requirements of SD300/Department of Energy (DOE) Order 414.1D, Chg. 2.

### 4.1 Criterion 1 – Management/Program

### 4.1.1 Program Goals

The MSGP Program supports EPC Division efforts to provide leadership in environmental protection and compliance services and compliance support to anticipate and manage environmental risk in support of Triad's mission.

Triad complies with the monitoring requirements, such as parameters, frequency of sampling, reporting, etc., set forth in the NPDES MSGP for industrial point source discharges through the Laboratory's MSGP Program. Compliance is demonstrated through the successful implementation of this PIP and applicable procedures.

### 4.1.2 Roles and Responsibilities

EPC-CP is responsible for the Laboratory's MSGP Program and a description of the group organization, levels of authority, and lines of communication are found within this PIP. EPC-CP group is organized by program teams under the line management direction of the Group Leader. Teams are cross-functional and focus on specific Program responsibilities, deliverables, or products. Program teams are guided by Team Leaders who have the responsibility to assure that the program is properly implemented. The following sections identify the roles and responsibilities for EPC-CP personnel, contractors, and program interfaces.

### 4.1.2.1 Group Leader

- Assure that the program has adequate resources (e.g., budget, staffing, etc.,) and that qualified staff properly gather and evaluate information submitted to the Environmental Protection Agency (EPA) as required by the MSGP Program.
- Sign Discharge Monitoring Reports (DMR), Annual Reports, Quarterly Visual Assessment Certifications, and change Notices of Intent (NOIs) prior to submittal to the EPA.
- Ensure that program personnel conduct procurements in accordance with P840-1, *Quality Assurance for Procurements*.
- Plan, conduct, and document periodic management assessments and Management Observation and Verifications (MOVs) of MSGP Program activities as required by P328-3 and P328-4.

### 4.1.2.2 Storm Water Permitting/Compliance Team Leader

- Ensure that program personnel perform work associated with the MSGP Program in accordance with the processes, procedures, and requirements specified in this plan.
- Ensure all MSGP Program personnel have the appropriate level of education, experience, and training to perform their job duties.
- Ensure that the most recent versions of the quality-related documents are used for all activities.
- Monitor and trend MSGP Program performance and track deficiencies.
- Support Facility Operations Directors (FODs) and Deployed Environmental Professionals (DEPs) with the implementation of corrective actions in a timely manner.
- Sign/submit DMRs, Annual Reports, Quarterly Visual Assessment Certifications, etc.
- Ensure PIP meets minimum specifications for documentation and records required by ADESH-QAP-001, ADESH Quality Assurance Plan.
- Conduct periodic reviews of records and documentation for accuracy, applicability, and compliance.

- Provide oversight and ensure that monitoring requirements are followed in accordance with the MSGP Program.
- Ensure that all required compliance documents are submitted to EPA in accordance with the MSGP.
- Recommend to Group Leader contracting items and services.
- Assist the Group Leader in planning and implementing management assessments and MOVs.
- Identify issues, concerns, or problems that warrant management assessment.
- Oversee resolution and correction of all problems found during management assessments.

### 4.1.2.3 MSGP Program Lead

- Perform MSGP Program related activities as assigned by the Storm Water Permitting/Compliance Team Leader.
- Engage other team members to support implementation of the MSGP Program.
- Support DEPs and permitted industrial facility owners with the implementation of corrective actions in a timely manner.
- Ensure analytical instruments used in the field are calibrated as per Institutional Procedure P330-2, *Control and Calibration of Measuring and Test Equipment (M&TE)*. Periodically review and update the calibration procedures to ensure permit requirements are met.
- Identify opportunities for process improvement, health and safety enhancement, environmenal protection, or other improvements of the program's operations.
- Ensure deficiencies are reported to the Storm Water Permitting/Compliance Team Leader in a timely manner.
- Implement a monitoring program as required by the MSGP.
- Ensure DMRs are prepared and submitted as required by the MSGP Program.
- Review documents for accuracy and completeness to assure that the requirements of the MSGP are met.
- Oversee data quality assessments prior to submittal of monthly, quarterly, and annual DMRs.
- Ensure procedures for sample handling and control during sample preparation, retrieval and analysis are followed.
- Identify issues, concerns, or problems that warrant management assessment.
- Periodically evaluate corrective actions to determine if there are issues that need to be entered into the Issues Management Tool.

- Oversee preparation, conduct quality review, and submit all required compliance documents (e.g., NOI/Notice of Termination (NOT), DMRs, Annual Reports, and correspondence) to EPA.
- Oversee preparation and conduct quality review of Stormwater Pollution Prevention Plans (SWPPP) coordinated with the responsible organization.

### 4.1.2.4 Storm Water Tracking System/Discharge Monitoring Report Manager

- Perform MSGP Program related activities as assigned by the Storm Water Permitting/Compliance Team Leader.
- Serve as database administrator for the Storm Water Tracking System (SWTS) and Discharge Monitoring Report modules in EIM.
- Maintain current MSGP station and monitoring requirement configuration content in SWTS.
- Ensure all results from sampling are returned and are eligible for reporting.
- Assist MSGP Program Lead in conducting data quality assurance review.
- Conduct data quality assessments prior to submittal of monthly, quarterly, and annual DMRs.
- Ensure compliance reports (NOI/NOT, DMRs, and Annual Reports) are prepared as required by the MSGP.
- Prepare stormwater DMRs for the MSGP Program.

### 4.1.2.5 MSGP Personnel

- Perform MSGP Program related activities as assigned by the Storm Water Permitting & Compliance Team Leader.
- Implement approved processes and procedures for any equipment and instrumentation used to collect field data (i.e., visual assessment parameters, temperature, and pH).
- Mentor and train new personnel, as needed.
- Conduct sampling activities in accordance with approved processes and procedures.
- Perform sample handling and control during sample preparation, retrieval, and analysis in accordance with approved processes and procedures.
- Notify the MSGP Program Lead immediately upon discovery of field parameter(s) (visual assessment parameters, temperature, and/or pH) exceedances.
- Conduct QA check of methods/equipment.
- Procure sampling equipment (i.e., bottles, standards, preservatives) in accordance with P840-1, *Quality Assurance for Procurements*. Order materials and supplies in accordance with LANL protocol.

### 4.1.2.6 EIM Database Administrator

- Coordinate with the Subcontract Technical Representative (STR) to ensure that formal contracts are in place to support MSGP Program compliance activities.
- Coordinate with the STR to oversee contract analytical laboratories and ensure they follow the DOE Analytical Services Program.
- Coordinate with the STR to ensure that the off-site laboratory participates in the DOE Consolidated Audit Program and that the analytical laboratory has been audited on an annual basis.
- Administer and maintain the database.
- Provide role-related database access.
- Maintain facility and personnel configuration content, permit-defined lists of limited values (LLVs), and e-mail notification distribution lists.
- Ship/transport samples to the correct off-site analytical laboratory for analysis.
- Administer and maintain sampling plans and sample documentation.
- Load analytical data into the EIM database and run auto-validation checks.
- Manage analytical laboratory data packages.

### 4.1.2.7 Corrective Action Reporting Database Administrator

- Administer and maintain the database.
- Provide role-related database access.
- Maintain facility and personnel configuration content, permit-defined LLVs, and e-mail notification distribution lists.

# 4.1.2.8 Maintenance Connection Database Administrator

- Administer and maintain the database.
- Provide role-related database access.
- Maintain facility and personnel configuration content.
- Extract data to support preparation of the MSGP Annual Report.

# 4.1.3 Internal Interfaces

# 4.1.3.1 Facility Operations Directors

The FOD provides organizational leadership to ensure that all facility and programmatic activities under their authority are performed in compliance with the MSGP. The FOD is also responsible for

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establishing an environmental compliance envelope. It is the FOD's responsibility to maintain trained and qualified DEPs and Waste Management Coordinators on staff under their authority.

# 4.1.3.2 Permitted Industrial Activity Facility Owner/Operator

The permitted industrial activity facility owner/operator is the organization or individual(s) designated by management to oversee the day-to-day operation and maintenance of each regulated facility and its associated stormwater control measures (SCMs) and outfalls. The designated owner/operator may be the FOD, Facility Operations Manager, Maintenance Manager, or Group Leader responsible for the buildings, facilities, and areas where the SCMs and outfalls are located. The MSGP Program interfaces with the owners/operators to assist in determining appropriate maintenance, corrective actions, inspections, site walks, and monitoring.

## 4.1.3.3 Deployed Environmental Professional

DEPs are embedded within FODs as assigned by the Deployed Environment Professionals Team Leader. DEPs provide daily environmental oversight, guidance, and support to the FOD and each designated permitted industrial activity facility owner/operator. The MSGP Program interfaces with DEPs regularly to coordinate outfall surveys, inspections, site walks, and monitoring. The DEPs perform the following MSGP activities.

- Act as a liaison between the permitted industrial activity operating facilities, the FOD, and EPC-CP.
- Write and update the facility-specific MSGP SWPPP.
- Conduct Routine Facility Inspections.
- Document, update, and coordinate correction of identified conditions requiring corrective actions.
- Identify personnel within industrial operating facilities requiring training.
- Update MSGP facility-specific training and present the training annually.

# 4.1.3.4 Sample Management Office (SMO)

The EPC-CP SMO is the central point for all analytical laboratory selection, evaluations, sample submittals, and data returns. The SMO performs the following activities.

- Evaluates potential analytical laboratories, prepares analytical statements of work that include requirements, and arrange contracts with selected laboratories for analysis of all samples.
- Accepts samples from sample collection personnel, prepares the sample for shipment, ships the samples to the off-site analytical laboratories, and receives the data packages from the laboratories.
- Analytical data is received from analytical laboratories in electronic format and uploaded into a database. Received data is checked for completeness and adherence to contract

requirements. After uploading, data undergoes verification and validation for evidence of laboratory contamination, improper analytical method, and other analytical issues, which could potentially affect data quality.

- Field data collected by sample collection personnel is verified and entered into EIM by SMO personnel when sample collection personnel deliver samples to the SMO.
- If significant verification and validation issues are identified, results are forwarded to, and discussed with, the responsible program lead.
- Data issues that result from procedural failures, personnel errors, or other failures to follow requirements are documented and corrected according to P322-4, *Issues Management*.

# 4.1.4 External Interfaces

# 4.1.4.1 Environmental Protection Agency

EPA Region 6 authorizes coverage under the MSGP in the State of New Mexico. The MSGP Program interfaces with the EPA, as needed, to submit public comment on draft permits, submit permit required reports, plans and other documentation, and to ensure compliance with the NPDES MSGP.

# 4.1.4.2 New Mexico Environmental Department

The New Mexico Environmental Department (NMED) Surface Water Quality Bureau assists the EPA with compliance evaluations, monitoring and Section 401, Clean Water Act certification through a joint federal and state agreement. Section 401 requires all federally issued permits to be certified by the state in which the discharge occurs and requires effluent limitations, other limitations and monitoring requirements set forth in the permit adhere to state water quality standards. The MSGP Program interfaces with the NMED as needed to ensure compliance with the Permit.

# 4.1.4.3 National Nuclear Safety Administration/Los Alamos Field Office

The National Nuclear Safety Administration (NNSA)/Los Alamos Field Office is the LANL facility owner and is responsible for providing oversight of LANL operations. It is the responsibility of the Los Alamos Field Office to ensure that LANL operates in compliance with all state and federal regulations. The MSGP Program interfaces with the Los Alamos Field Office as needed to ensure compliance with the Permit.

# 4.1.4.4 Analytical Laboratory Contractors

An independent off-site analytical laboratory performs analytical services for the MSGP Program. The analytical laboratory is required to participate in the DOE Consolidated Audit Program, maintain positive control of samples, perform analyses for samples received, and report sample results as specified in statements of work and internal procedures. The STR and SMO personnel interface with the off-site analytical laboratory. Interface between MSGP Program personnel and the analytical laboratory is conducted with STR and SMO oversight, as needed, to ensure that samples are handled correctly and that analytical results are received per the contract requirements.

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## 4.2 Criterion 2 – Management/Personnel Training and Qualification

The Storm Water Permitting/Compliance Team Leader shall determine skills, knowledge, and abilities required to perform MSGP Program work. Program personnel will be qualified and trained in accordance with P781-1, *Conduct of Training*. The Storm Water Permitting/Compliance Team Leader assigns minimum training requirements using a training plan. The Triad Human Resources Division maintains documentation of education qualification. Table 4.2 provides a summary of training and qualification requirements for MSGP Program personnel.

Table 4.2 Management/F		
Key Personnel/Role	Qualification Standard	Program Specific Training
Storm Water Permitting/Compliance Team Leader	<ul> <li>EPC-CP Manager Qualification Standard</li> <li>EPC-CP Group Qualification Standard</li> <li>EPC-CP-QS-2005, Stormwater Inspector Qualification Standard</li> <li>EPC-CP-QS-2006, Stormwater Pollution Prevention Plan Preparer Qualification Standard</li> <li>EPC-CP-QS-2007, Stormwater Design Reviewer Qualification Standard</li> </ul>	EPC-CP-PIP-2101
MSGP Program Lead, MSGP Personnel	<ul> <li>EPC-CP Group Qualification Standard</li> <li>EPC-CP-QS-2005, Stormwater Inspector Qualification Standard</li> <li>EPC-CP-QS-2006, Stormwater Pollution Prevention Plan Preparer Qualification Standard</li> <li>EPC-CP-QS-2007, Stormwater Design Reviewer Qualification Standard*</li> </ul>	
Discharge Monitoring Report Manager	EPC-CP Group Qualification Standard	-
Database Adminstrator	EPC-CP Group Qualification Standard	*

### 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*, ADESH-QAP-001, *ADESH Quality Assurance Plan*, and Group procedures. A condition requiring corrective action that meets any of the following criteria is entered into the Issues Management Tool and will be screened as high, medium, or low.

- Corrective action was not completed by the expected completion date.
- A schedule is sent to the EPA Region 6 requesting an extension of the 45-day or 90-day timeframe to complete a corrective action and corrective action was not completed by the required completion date provided in the letter or as approved by EPA.
- All benchmark Additional Implementation Measure (AIM) level 2 or 3 exceedances.
- Repeat corrective actions or trends identified by EPC-CP personnel.
- Conditions requiring immediate action, where failure to take action would result in pollutants being released to a water body of the State or an immediate non-compliance with the MSGP.
- Violations identified by the regulatory authority.
- Other issues as deemed necessary by EPC-CP personnel.

#### 4.4 Criterion 4 – Management/Documents and Records

#### 4.4.1 Document Control

Procedures, permits, NOIs, NOTs, reports, and quality affecting correspondence are controlled by the organization's document control system (ESH-AP-007, *Document Control*). As a Best Management Practice (BMP), EPC-CP keeps an approved hard copy of the MSGP as well as all of the reapplication materials associated with the permit.

Controlled copies of EPC documents are located on the Internet:

• Electronic Document and Records Management System

Phone calls or emails are documented and controlled if the content provides direction or results in clarification of permit requirements or decisions.

### 4.4.2 Procedures

Procedures that implement the work scope identified in this PIP are developed and controlled, as needed, in accordance with ADESH-QAP-001, *ADESH Quality Assurance Plan*, ESH-AP-007, *Document Control*, and EPC-CP-QP-0901, *EPC-CP Quality Procedure to Supplement ESH-AP-007, Document Control*.

## 4.4.3 Electronic Media

The MSGP utilizes electronic means, as necessary, to maintain data. Databases used to hold data and generate reports used in demonstrating compliance are maintained on a common drive of a server or on a cloud-based platform. These databases are backed-up daily to minimize potential loss of data. The database administrator(s) control access to these databases, allowing only trained authorized personnel access to the databases.

EIM (<u>https://www.locusfocus.com/eim/eim.cfm</u>) 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

(<u>https://www.maintenanceconnection.com/mcv18/online/mc\_login\_form.asp</u>) 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 (<u>https://epc.lanl.gov</u>) is a Laboratorymanaged Oracle APEX database and associated administration module that tracks corrective action data.

### 4.4.4 Records Management

Records are maintained and available for auditing in accordance with ESH-AP-006, *Records Management Plan*. The Storm Water Permitting/Compliance Team generates and retains records to ensure compliance with monitoring and recordkeeping requirements as specified by the Laboratory, DOE, and the EPA. Records kept by the MSGP Program include the following:

- Copy of the MSGP
- Annual Reports
- Discharge Monitoring Reports
- Corrective Action Reports
- NOIs and NOTs
- Reports and certifications required by the MSGP
- Data used for compliance purposes
- Inspection forms
- Logbook entries and/or field forms to document inspection and monitoring activity
- Equipment and instrument calibration and maintenance records

- QA documents
- General correspondence that affects the program (e.g., phone calls, emails, and log entries that provide directions or results in decisions)
- Applicable IWDs
- General MSGP compliance documents (correspondence with regulators and stakeholders, notice of change conditions, etc.)

Analytical data packages are stored in EDRMS and are available for public viewing on the Intellus New Mexico website.

The DEPs, assigned to the FOD in which a permitted industrial activity facility resides, keep the following records within the facility-specific Stormwater Pollution Prevention Plan.

- Reports and certifications required by the MSGP
- Routine Facility Inspection forms
- Visual Assessment forms
- Corrective Action Reports
- Discharge Monitoring Reports
- Annual Reports

All monitoring data is collected in accordance with the requirements specified in the MSGP. Triad submits monitoring results to EPA within 60 days of the end of the monitoring period, or in the case of no discharge (NODI) DMRs, within 30 days of the end of the monitoring period. The NOI or change NOIs, Annual Reports and DMRs are submitted electronically in accordance with the MSGP. These documents are submitted via EPA's electronic reporting site called the <u>Central Data Exchange</u> (CDX) website, unless the permit states otherwise or unless a waiver has been granted.

Triad keeps copies of the following documentation for a period of at least 3 years from the date its coverage under the MSGP expires or is terminated.

- SWPPP (including any modifications made during the term of the MSGP)
- Additional documentation requirements as identified in Section 6.5 of the MSGP
- All reports and certifications required by the MSGP
- Monitoring data
- Records of all information used to complete the NOI.

#### 4.5 Criterion 5 – Performance/Work Processes

Work that contributes to achieving the quality specifications of the MSGP deliverables, is planned and documented, as described in this document and implementing procedures.

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Work is performed according to applicable plans and implementing procedures. The Program Lead provides first line supervision of personnel assigned to program tasks to ensure work is performed to achieve program quality specifications. Before changing a work process that affects the program quality specifications, the Program Lead ensures the same level of planning and review as used in the initial program planning steps.

### 4.5.1 Work Processes

All work should be regarded as a process. Each process consists of a series of actions and is planned and carried out by qualified workers using specified work processes and equipment under administrative, technical, and environmental controls established by management to achieve an end result. Workers are the best resource to contribute ideas for improving work processes and are involved in work process design, process evaluation, and providing the feedback necessary for improvement.

Work is planned and performed using the principles of Integrated Safety Management and is in compliance with P300, *Integrated Work Management for Work Activities*.

## 4.5.2 Stormwater Pollution Prevention Plans

SWPPP development and implementation by the permitted industrial activity facility is required for MSGP compliance (refer to Sections 6.0 and 8.0 of the MSGP for general SWPPP requirements and Sector-Specific Requirements for Industrial Activity, and Attachment 2, *MSGP Facilities Associated with Industrial Activity*). The SWPPP is intended to document the selection, design, and installation of SCMs. Additional documentation requirements are intended to document the implementation (including inspection, maintenance, monitoring, and corrective action) requirements identified in the MSGP. The SWPPP is a written assessment of potential sources of pollutants in stormwater runoff and it identifies SCMs implemented at the specific permitted industrial activity facility to minimize the discharge of pollutants in runoff from the site. These SCMs include site-specific stormwater controls, inspections, employee training, and reporting. The plans and procedures detailed in the SWPPP are implemented by the facility and updated as necessary, with a copy of the SWPPP kept on-site.

The SWPPP development process involves evaluating regulated industrial activities and requires FOD and Operational support for implementation, improvement, and revision of the plans. EPC-CP personnel follow guidance in EPC Division and Group documents including the most current revision of EPC-CP-QP-2110, *MSGP Stormwater Pollution Prevention Plan Preparation and Maintenance*.

# 4.5.3 Inspections

The MSGP requires periodic inspection of industrial processes and maintenance of SCMs to ensure their effectiveness. Triad has implemented a routine inspection process (e.g., monthly or quarterly) of industrial activity facilities permitted under the MSGP to support this determination. For information about how to perform a Routine Facility Inspection and how to complete the associated form, refer to the most current revision of EPC-CP-QP-2108, *MSGP Routine Facility Inspections.* 

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Visual assessments are also required by the MSGP as an important tool for collecting information to determine the effectiveness of controls in preventing potential contaminants from migrating off Laboratory property. Accordingly, field personnel conduct visual assessments for stormwater collected at the monitoring stations or discharged through substantially identical outfalls associated with permitted industrial activity facilities located throughout the Laboratory. Information recorded documents all observations that are required by the MSGP. For information about how to perform a Visual Assessment and how to complete the associated form, refer to the most current revision of EPC-CP-QP-2105, *MSGP Stormwater Visual Assessments*.

## 4.5.4 Stormwater Corrective Actions

It is critical that Triad be able to effectively inspect and maintain the SCMs that have been installed at various locations. Quarterly inspections are completed and provided to the Program Lead for inclusion into the records system. In addition, the Program Lead accompanies the DEPs on the last Routine Facility Inspection of the year. All identified conditions requiring corrective action are summarized in an Annual Report submitted EPA each year. Triad management has made an investment in time and materials, in addition to a commitment to minimize potential migration of pollutants in stormwater. Report findings are evaluated, and in conjunction with facility personnel, SCMs are modified, installed, or removed as necessary. EPC-CP personnel follow guidance in EPC Division and Group level documents including EPC-CP-QP-2109, *MSGP Corrective Actions*.

# 4.5.4.1 Responding to Water Quality Exceedances

Federal stormwater regulations implemented under the Laboratory's MSGP require corrective action to be taken if exceedances of water quality standards or MSGP numeric effluent limits are identified. The identification of a pollutant source(s) contributing to a water quality exceedance is addressed through the creation of a condition requiring corrective action that is entered into the MSGP CAR database in accordance with EPC-CP-QP-2109, *MSGP Corrective Actions*. Corrective actions are typically accomplished by modifying, as appropriate, existing SCMs and SWPPPs or installing new SCMs.

When a water quality exceedance occurs, the MSGP EIM Database Administrator assures the analytical data is reviewed and submitted on the required DMR. The Program Lead enters the exceedance as a condition requiring corrective action in the MSGP CAR database. DEPs, and other SWPPP team members then investigate the occurrence, implement corrective action and document all corrective actions taken.

When an exceedance of the MSGP benchmark parameters is detected, the same process is followed as identified for a water quality exceedance above.

### 4.5.5 Stormwater Monitoring

The MSGP requires stormwater monitoring to address three separate criteria: Quarterly Benchmark, Effluent Limitations, and Impaired Waters. Refer to Attachment 2, *MSGP Facilities Associated with Industrial Activity* for a list of Laboratory permitted facilities that have monitoring requirements. Stormwater monitoring is conducted by EPC-CP personnel in accordance with the MSGP, EPC-CP

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procedures, and the current year MSGP Sampling and Analysis Plan. Considerations to be used for MSGP stormwater monitoring include, but may not be limited to, MSGP requirements, State water quality standards, and Administrative Authority requests.

Quarterly benchmark monitoring is used for determining the effectiveness of stormwater controls and, corrective actions for meeting the requirements of the MSGP. Four benchmark stormwater samples per year are required under the MSGP, but it is not necessary to collect them in consecutive quarters if climatic conditions preventing quarterly collection are documented (see *Adverse Weather Conditions* in Part 4.1.5 of the MSGP). Stormwater monitoring results are used to demonstrate compliance with water quality standards and to meet the requirement to evaluate results against benchmark parameter permit limits.

Annual Impaired Waters stormwater discharge monitoring of all pollutants for which a waterbody is impaired and for which a standard analytical method exists (see 40 CFR Part 136) is required. The canyons within and surrounding the Laboratory are declared as impaired waters by NMED. Impaired waters pollutants vary from canyon to canyon and are evaluated and published biannually by NMED in the Clean Water Act §303(d)/305(b) Integrated Report. The pollutants may be discontinued in subsequent annual monitoring if the concentration is below background levels in stormwater or if the constituent is not detected in year 1 or year 4 of the permit.

Effluent limitations monitoring is required annually where effluent limitation guidelines have been established for select regulated activities. Exceedance of an effluent limitation is a permit violation.

MSGP analytical methods applicable to LANL are consistent with the requirements of 40 CFR Part 136, *Guidelines Establishing Test Procedures for the Analysis of Pollutants.* 

Triad monitors for four quarters as follows for each calendar year.

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

Documentation of the rationale for no monitoring or inspections due to adverse weather conditions must be included in the facility specific SWPPP. Adverse weather conditions are those that are dangerous or create inaccessibility for personnel, such as local flooding, high winds, or electrical storms, or situations that otherwise make sampling impractical, such as drought or extended frozen conditions.

Compliance is tracked by performing inspections of samplers and other associated equipment, and inspecting SCMs. Adequate records are maintained to demonstrate the operating history of essential instrumentation and equipment.

Triad operates and maintains systems of monitoring, control, and related equipment that are installed or used to achieve compliance with the MSGP and the SWPPP. Backup instrumentation and equipment will be timely deployed in the event of equipment failure.

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Instrument calibration is essential for documenting the quality of data obtained with the instrument. Technical work that depends upon the accuracy of data is performed using equipment for which the calibration status and limits of accuracy are known and controlled.

Field team personnel calibrate and perform maintenance procedures on all monitoring and analytical field instruments to ensure accuracy of measurements and maintain appropriate records of such activities. Calibrations are documented as prescribed by procedures or manufacturer's instructions.

Any person involved in the preparation, retrieval, and analysis will maintain positive control of samples at all times until sample disposal. Chain of custody responsibilities are provided in EPC-CP-QP-3020, *Sample Control and Field Documentation* and Table 4.5.5-1. EPC-CP personnel follow guidance in EPC Division documents including the most current revision of:

- EPC-CP-TP-2102, Installing, Setting Up, and Operating ISCO Samplers;
- EPC-CP-TP-2103, Inspecting Stormwater Runoff Samplers and Retrieving Samples for the MSGP;
- EPC-CP-QP-2104, Installing, Inspecting, and Maintaining MSGP Single Stage Samplers; and

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.	

• EPC-CP-QP-2106, Processing MSGP Stormwater Samples.

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 samplecontainer.

The MSGP Program Lead shall consider and include, at a minimum, the collection of QC samples at the frequencies identified in Table 4.5.5.1-1.

Table 4.5.5.1-1 Quality Control Sampling Requirements		
Sample Type Analysis Frequency		
Field Blank and/or Field Duplicate	Includes all analytical groups	10% of samples or a minimum of one per calendar year.

All QC samples shall be collected in accordance with procedures provided in EPC-CP-QP-3027, *Sample Containers, Preservation, and Field Quality Control.* 

# 4.5.6 Reporting

### 4.5.6.1 Discharge Monitoring Reports

DMRs are prepared in accordance with the most recent version of the procedure for generating DMRs using the DMR module in EIM. The DMR module is used to prepare the DMR in two formats: a paper form (EPA Form 3320-1) which may be printed as a hard copy or saved as a PDF, and an electronic comma-separated value file for import into the NetDMR electronic reporting system. The Laboratory is required to submit DMRs to EPA electronically using the NetDMR system and to keep a printed copy with the facility-specific SWPPP.

DMRs are due in the NetDMR system no later than 60 days following each monitoring period. NetDMR is accessed via EPA's CDX website (<u>https://cdx.epa.gov/</u>). The DMR manager may import DMRs into NetDMR; however, only a designated EPC Signatory Official or Authorized Representative

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may submit the DMRs for NPDES Permits. NetDMR roles and permissions for these functions are described on the NetDMR Support Portal (<u>https://netdmr.zendesk.com</u>/).

### 4.5.6.2 Annual Reports

The Laboratory is required to submit an annual report electronically to the EPA by January 30<sup>th</sup> for each year of permit coverage that includes a summary of the findings from inspections and corrective action documentation. The documentation includes the following:

- Information relative to whether a waiver was granted, by whom, and the date the waiver was approved;
- The NPDES Permit Tracking Number;
- A summary of the past year's routine facility inspection documentation (see Part 3.1.6 of the MSGP);
- A summary of your past years quarterly visual assessment documentation (see Part 3.2.3 of the MSGP);
- A summary of the corrective action and/or AIM documentation over the past year (see Parts 5.1.3 and 5.3 of the MSGP); and

The annual report is submitted electronically via the NetMSGP program service on EPA's CDX website. The annual report may be submitted on a paper form (EPA Form 6100-28) if the Laboratory has been granted a waiver from electronic reporting by the applicable EPA Regional Office.

### 4.6 Criterion 6 – Performance/Design

Design activities are conducted and reviewed in accordance with:

- PD340, Conduct of Engineering and Configuration Management for Facility Work;
- P341, Facility Engineering Processes Manual and;
- P342, Engineering Standards.

Design standards under this program include, but are not limited to temporary and permanent SCMs, conditions requiring corrective action, and stormwater monitoring support.

Design inputs are specified and approved on a timely basis for making design decisions. Inputs contain the level of detail required to permit the performance of design activities correctly.

Formal design reviews, including design verifications and evaluation of design changes, are conducted to ensure that the design input is correctly incorporated into the design output. Changes to design will undergo the same review as the original design. A Professional Engineer must stamp engineered designs.

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Verification and validation of the adequacy of designs are conducted before relying on the performance of the design function. Verification and validation are conducted in accordance with implementing procedures.

# 4.7 Criterion 7 – Performance/Procurement

Items and services required to perform the scope for the MSGP Program are commercial grade in nature and no special procurement requirements or needs are necessary. All procurements of equipment, supplies, and/or services are made in accordance with P840-1, *Quality Assurance for Procurements*.

## 4.8 Criterion 8 – Performance/Inspection and Acceptance Testing

Materials and services used in this program will be inspected and/or tested prior to acceptance in accordance with P330-8, *Inspection and Test* as applicable. Most supplies used during performance of program activities are commercial grade in nature and require no special acceptance practices or procedures.

## 4.9 Criterion 9 – Assessment/Management Assessment

The EPC-CP Group Leader conducts management assessments and/or MOV assessments of the MSGP Program in accordance with P328-3, *Management Assessment* and *P328-4, Management Observation and Verification*. Assessments are documented and filed as records in accordance with ESH-AP-006, *Records Management Procedure*. Violations of requirements and/or findings from management assessments and/or MOVs initiate a nonconformance report in accordance with P330-6 *Nonconformance Control and Reporting*. Corrective actions to resolve the nonconforming services or processes are tracked and documented in accordance with P322-4, *Issues Management*.

# 4.10 Criterion 10 – Assessment/Independent Assessment

Independent assessments are those assessments conducted by organizations external to EPC-CP. As required by the SD330, *Los Alamos National Laboratory Quality Assurance Program*, this program may be assessed by outside organizations in accordance with P328-2, *Independent Assessment*.

Annual audits/assessments will be conducted, with input from the Storm Water Permitting/Compliance Team Leader identifying one or more areas of the program to be audited each year. If a violation of requirements is found during an independent audit/assessment, a nonconformance report is initiated in accordance with P330-6, *Nonconformance Control and Reporting*. Corrective actions are tracked and documented in accordance with P322-4, *Issues Management*.

# 4.11 Suspect/Counterfeit Items Prevention

Suspect/Counterfeit items (S/CI) are prevented from being purchased by Triad at LANL. Potential S/CI are prevented, detected, reported and investigated in accordance with the procedures defined in the LANL procedure P330-9, *Suspect/Counterfeit Items (S/CI)*.

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#### 4.12 Safety Software Quality Assurance Requirements for Nuclear Facilities

This section is only applicable for nuclear facilities in accordance with DOE Order 414.1D, Chg.2, Attachment 1 *Contractor Requirements Document* (CRD), Section 1.b. As such, this section is not applicable to the NPDES MSGP Program.

#### 5.0 IMPLEMENTATION

The requirements of this document are effective on the date provided on the cover page.

### 6.0 TRAINING

Training for EPC-CP MSGP employees, DEPs, and subcontractors are assigned and tracked using UTrain, the institutional training management system. The required training associated with this document is as follows.

• Self-study of this procedure (required reading) is required for all MSGP Program employees, including subcontractors, and some DEPs depending on their assigned job duties.

### 7.0 DOCUMENTS AND RECORDS

The Environment, Safety, Health, Quality, Safeguards, and Security-Document Control and Records Management is the Office of Record for this document and maintains the administrative record. Documents and records are maintained in accordance with PD1020, *Document Control and Records Management;* ESH-AP-007, *Document Control;* P1020-1, *Laboratory Records Management,* and ESH-AP-006, *Records Management Procedure.* 

#### 8.0 DEFINITIONS AND ACRONYMS

Use the LANL Definition of Terms and those in SD330.

BMP	Best Management Practice
CDX	Central Data Exchange
CFR	Code of Federal Regulations
CRD	Contractor Requirements Document
DEP	Deployed Environmental Professional
DI	Deionized
DMR	Discharge Monitoring Report
DOE	Department of Energy
EIM	Environmental Information Management
EPA	Environmental Protection Agency
EPC-CP	Environmental Protection and Compliance-Compliance Programs
FOD	Facility Operations Director
LANL	Los Alamos National Laboratory

Use the LANL Acronym Master List.

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LLV	List of Limited Value
MOV	Management Observation and Verification
MSGP	Multi-Sector General Program
NeT	NPDES eReporting Tool
NMED	New Mexico Environmental Department
NNSA	National Nuclear Safety Administration
NOI	Notice of Intent
NOT	Notice of Termination
NPDES	National Pollutant Discharge Elimination System
PIP	Program Implementation Plan
QA	Quality Assurance
S/CI	Suspect/Counterfeit Items
SCM	Stormwater Control Measure
SMO	Sample Management Office
STR	Subcontract Technical Representative
SWPPP	Stormwater Pollution Prevention Plan
SWTS	Storm Water Tracking System Module
VOC	Volatile organic compound

#### 9.0 **REFERENCES**

The latest document revision, available through Triad's Electronic Document and Records Management System, shall be used unless otherwise specified.

Prime Contract

DOE Order 414.1D, Chg. 2, Quality Assurance

NPDES MSGP

40 CFR Part 136, Guidelines Establishing Test Procedures for the Analysis of Pollutants

Clean Water Act, Title 33 U.S.C. 1251

20.6 Part 4 NMAC, Standards for Interstate Surface Waters

#### LANL Documents:

SD330, Los Alamos National Laboratory Quality Assurance Program

P101-17, Excavation/Fill/Soil Disturbance

P300, Integrated Work Management

P322-4, Issues Management

P328-2, Independent Assessment

- P328-3, Management Assessment
- P328-4, Management Observation and Verification
- P330-2, Control and Calibration of Measuring and Test Equipment (M&TE)
- P330-6, Nonconformance Control and Reporting
- P330-8, Inspection and Test
- P330-9, Suspect/Counterfeit Items (S/CI)
- P340, Conduct of Engineering and Configuration Management for Facility Work
- P341, Facility Engineering Processes Manual
- P342, Engineering Standards
- EPC-ES-FSD-001, Implementing Environmental Requirements
- EPC-CP-FSD-001, Water Quality
- P781-1 Conduct of Training
- P840-1, Quality Assurance for Procurements
- P1040, Software Quality Management
- PD1020, Document Control and Records Management
- P1020-1, Laboratory Records Management

#### **EPC Documents:**

- ESH-AP-006, Records Management Procedure
- ESH-AP-007, Document Control
- ADESH-QAP-001, ADESH Quality Assurance Plan
- EPC-DO-QP-100, General Field Safety
- EPC-CP-QAP-001, Environmental Compliance Programs Quality Assurance Plan
- EPC-CP-QP-0901, EPC-CP Quality Procedure to Supplement ESH-AP-007, Document Control
- EPC-DO-TP-120, Project Review Process
- EPC-CP-QP-2109, MSGP Corrective Actions
- EPC-CP-QP-2104, Installing, Inspecting, and Maintaining MSGP Single Stage Samplers
- EPC-CP-QP-2105, MSGP Stormwater Visual Assessments
- EPC-CP-QP-2106, Processing MSGP Stormwater Samples
- EPC-CP-QP-2107, Preparing Discharge Monitoring Reports for the NPDES Multi-Sector General Permit

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EPC-CP-QP-2108, MSGP Routine Facility Inspections

EPC-CP-QP-2110, MSGP Stormwater Pollution Prevention Plan Preparation and Maintenance

EPC-CP-TP-2102, Installing, Setting Up, and Operating ISCO Samplers

EPC-CP-TP-2103, Inspecting Stormwater Runoff Samplers and Retrieving Samples for the MSGP

## **10.0 APPENDICIES**

Appendix A: NPDES Multi-Sector General Permit Program Management Level Determination, MLDS-TA-60-324 Rev. 0

## 11.0 ATTACHMENTS

Attachment 1: Summary of QA Requirements and Program-Level (Local) Work Practices

Attachment 2: MSGP Facilities Associated with Industrial Activity

## **12.0 CONTACT INFORMATION**

Entity: EPC-CP Storm Water Permitting/Compliance Team Leader Name: Terrill W. Lemke Telephone: (505) 665-2397 E-mail: tlemke@lanl.gov Website: <u>https://int.lanl.gov/org/ddops/aldeshqss/environmental-waste-programs/compliance-programs/index.shtml</u>

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### Appendix A: NPDES Multi-Sector General Permit Program Management Level Determination, MLDS-TA-60-324 Rev. 0

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ES-DO-20-032

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### Appendix A: NPDES Multi-Sector General Permit Program Management Level Determination, MLDS-TA-60-324 Rev. 0 (cont.)

(Page 2 of 4)

	Los Alamos	NPDES Gonstruction	Conduct of En General Perminent Level Dete	it Program
MLDS	No.: MLDS-TA-60-324	Rev.: 0		Page 2 of
• The desi	system is an SSC of a Ha gnated Safety Significant	izard Category 2 or 3 Nuclear Facili (SS) function(s).	ty that performs DSA	
The prote	system is an SSC of an A ection function(s).	ccelerator Facility that performs SA	D designated worker	
- The iden	system is an SSC of a High	gh Hazard Nonnuclear Facility that stion of the uninvolved or noninvolve d 3.3.	performs function(s) ed worker.	
No.	SS functions or worker Safety Analysis	protection functions as defined by	DSA, SAD, or F	SA Reference
3.2-1	N/A		N/A	
3.2-2	N/A		N/A	
3.2-3	N/A		N/A	
applicat	ole criteria, insert the func	f the criteria below? If "Yes", then cl tion(s) and safety analysis or Facilit o to Section 4.0 and designate the s	v	🗌 No 🖾

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### Appendix A: NPDES Multi-Sector General Permit Program Management Level Determination, MLDS-TA-60-324 Rev. 0 (cont.)

(Page 3 of 4)

	LOS Alamos	NPDES Gonstruction	Conduct of Eng General Permit nent Level Dete	Program
MLDS	No.: MLDS-TA-60-324	Rev.: 0		Page 3 of
· Th Oth	e system is an SSC of a H her Hazard Control (OHC) i	azard Category 2 or 3 Nuclear Facil n the DSA.	lity that is designated	
• The Nu	e system is an SSC that pe clear Material (SNM) or Cla	rforms function(s) for protection of C assified Matter as determined by the	Category I or II Special Facility Management.	
fun the	ction(s) identified in the FS	oderate Hazard Nonnuclear Facility A for protection of uninvolved or nor ires enhanced engineering, quality, ndards requirements.	ninvolved worker and	t II
Acc	e system is an SSC that pe ceptance Criteria (WAC) for nagement.	rforms important function(s) for com r a Waste Receiving Site and as det	pliance with Waste ermined by the Facility	
cov	ered in the Radiation Prote	rforms function(s) for radiation prote action Safety Management Program al, abnormal, or emergency respons	(SMP) and are	
call	ed out in a permit or used t	rforms function(s) for environmental o demonstrate environmental comp acility Management. (See discussion	liance that are	$\boxtimes$
Evalu	letermined by the Facility N ation. This MLDS is for the IL. which is responsible for	forms function(s) that are essential Management. overall Multi-Sector General Permit monitoring the storm water dischar . The MSGP Program is responsible	t (MSGP) Program at	
•		quirements, how often to conduct th		
	Evaluates sample results	and compares those results to esta	blished effluent limits;	
•	Provides storm water disc agencies at a predetermin	charge summary reports to the asso ned reporting frequency;	ciated enforcement	
	Works with the enforcement	ent agencies to address identified is	sues.	
in th on e	e program that would requi quipment to support permi	ociated with a program and not equi ire it to be elevated to ML-3. While t t requirements, the equipment (as a program to determine the appropriat	he program may rely	
If "No" i	s checked then go to Field	3.4		_
No.	OHC Functions defined functions as determined	by Safety Analysis or other ML-3 by Facility Management	DSA or Facility Ma Reference	anagement
3.3-1	Obtain permit coverage	(NOI) and modification	N/A	
3.3-2	Permit implementation		N/A	
3.3-3	Compliance inspections		N/A	
3.3-4	Data management		N/A	

LANL

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### Appendix A: NPDES Multi-Sector General Permit Program Management Level Determination, MLDS-TA-60-324 Rev. 0 (cont.)

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	S No.: MLDS-TA-60-324	Rev.: 0		
	and a state of the	Nev U		
3.3-5	Reporting			N/A
3.4 If desig	the System does not meet nate the system as ML-4 in	t any of the criteria in fields 3 n Section 4.0.	1.1, 3.2, or 3.3,	then
4.0 S	YSTEM MANAGEMENT L	EVEL DESIGNATION		
ML-1	□ ML-2	□ ML-3 [		ML-4 🖂
_				
5.0 A	PPROVALS			
5.1 R		ne, Z Number, Organization,	Signature, and	-gate)
5.1 R Terrill 5.2 Ve	esponsible Engineer <i>(Nam</i> Lemke, 120092, EPC-CP	Drganization, Signature, and	with	
5.1 R Terrill 5.2 Ve Tauni 5.3 Fa	esponsible Engineer (Nam Lemke, 120092, EPC-CP erifier (Name, Z Number, C a Van Valkenburg, 145666	Drganization, Signature, and B, EPC-CP	Date)	Jul 25,
5.1 R Terrill 5.2 V Tauni 5.3 Fa Jason	esponsible Engineer (Nam Lemke, 120092, EPC-CP arifier (Name, Z Number, C a Van Valkenburg, 145666 acility Design Authority Rep	Drganization, Signature, and B, EPC-CP	Date)	on, Signature, an
5.1 R Terrill 5.2 V Tauni 5.3 Fa Jason	esponsible Engineer (Nam Lemke, 120092, EPC-CP erifier (Name, Z Number, C a Van Valkenburg, 145666 acility Design Authority Rep Apperson, 222827, ES-DO	Drganization, Signature, and B, EPC-CP	Date)	on, Signature, an

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# Attachment 1: Summary of QA Requirements and Program-Level (Local) Work Practices

Summary of QA Requirements and Program-Level (Local) Work Practices			
DOE Order 414.1D/SD 330 Requirements	LANL Work Practice	Local Implementing Procedure or QAP section (if applicable)	
CRD Attach. 2, 1. Criterion 1 – Management/Program	LANL organization chart; SD100, 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	EPC-CP-QAP-001; EPC-CP Manager Qualification Standard EPC-CP Group Qualification Standard EPC-CP-QS-2005; EPC-CP-QS-2006; EPC-CP-QS-2007	
CRD Attach. 2, 3. Criterion 3 – Management/Quality Improvement	P101-18, 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	ADESH-QAP-001; ESH-AP-006; ESH-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;	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)	
	SD330, Los Alamos National Laboratory Quality Assurance Program;	EPC-CP-QP-2105, MSGP Stormwater Visual Assessments;	
	PD340, Conduct of Engineering for Facility Work;	EPC-CP-QP-2106, Processing MSGP Stormwater Samples;	
	P315, Conduct of Operations Manual; P330-2, Control and Calibration of Measuring and Test Equipment (M&TE);	EPC-CP-QP-2107, Preparing Discharge Monitoring Reports for the NPDES Multi- Sector General Permit;	
	SD601, Conduct of Research and Development;	EPC-CP-QP-2108, <i>MSGP Routine Facility</i> Inspections;	
	PD781, Training Program Management P1040, Software Quality Management	EPC-CP-QP-2109, <i>MSGP Corrective Actions</i> ;	
		EPC-CP-QP-2110, MSGP Stormwater Pollution Prevention Plan Preparation and Maintenance	
CRD Attach. 2, 6. Criterion 6 – Performance/Design	For Facility Work: PD340, Conduct of Engineering and Configuration Management for Facility Work;	No local implementing procedures, LANL Work Practices apply.	
	P341, Facility Engineering Processes Manual;		
	P342, <i>Engineering Standards;</i> Engineering Standards Manual; Functional Series documents; Engineering Administrative Procedures		
	<u>For R&amp;D:</u> PD370, Conduct of Engineering for Research and Development (R&D)		
CRD Attach. 2, 7. Criterion 7 – Performance/Procurement	P840-1, Quality Assurance for Procurements <sup>1</sup>	No local implementing procedures, LANL Work Practices apply.	
CRD Attach. 2, 8. Criterion 8 – Performance/Inspection and Acceptance Testing	P330-8, Inspection and Test <sup>3</sup> ; 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.	PD328, LANL Assessment Program;	ADESH-QAP-001		
Criterion 9 –	P328-3, Management Assessment;	EPC-CP-QAP-001		
Assessment/Management Assessment	P328-4, Management Observation and Verification			
CRD Attach. 2, 10.	PD328, LANL Assessment Program;	No local implementing procedures, LANL		
Criterion 10 –	P328-2, Independent Assessment;	Work Practices apply.		
Assessment/Independent Assessment	P328-4, Management Observation and Verification			
CRD Attach. 3, Suspect/Counterfeit Items Prevention	P330-9, Suspect/Counterfeit Items (S/CI) <sup>1</sup>	No local implementing procedures, LANL Work Practices apply.		
CRD Attach. 4, Safety	P1040, Software Quality Management <sup>2</sup> ;	No local implementing procedures, LANL		
Software Quality Assurance Requirements for Nuclear Facilities <sup>2</sup>	Form 2033, Safety Non-Safety Software Determination, Categorization, and Software Risk Level	Work Practices apply.		
<sup>1</sup> 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, <i>Quality Assurance for Procurements</i> , and P330-9, <i>Suspect/Counterfeit Items (S/CI)</i> .				
<sup>2</sup> DOE Order 414.1D, Chg 1, <i>Quality Assurance</i> , 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.				
<sup>3</sup> For ML-4 items and activities, inspections and tests are performed to extent required by the applicable codes and/or standards.				

<sup>4</sup> Core work practices applicable to R&D are described in SD601, *Conduct of Research and Development*.

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### Attachment 2: MSGP Facilities Associated with Industrial Activities

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MSGP Facilities Associated with Industrial Activities						
PermittedPermittedAssessmentLocationFacilityOperationActivitySectorUnitCanyo						Canyon
TA-3-38	TA-3-38 Metals Fab Shop	Metal Shop	Fabricated metal products	AA1	NM-9000.A_047	Sandia
TA-09- 0214	TA-09-0214 Metal Fabrication Shop	Metal Shop	Fabricated metal products	AA1	NM-128.A_16	Arroyo de la Delfe
TA-16	Stockpile Area	Materials Storage	Materials storage	P1	NM-128.A_01	Canyon de Valle
TA-60	TA-60 Asphalt Batch Plant	Asphalt Batch Plant	Asphalt paving	D1	NM-9000.A_042	Mortandad
TA-60	TA-60 MRF	Materials Recycling Facility	Scrap recycling	N2	NM-9000.A_047	Sandia
TA-60	TA-60 Roads and Grounds	Roads and Grounds Facility	Vehicle maintenance and storage	P1	NM-9000.A_042 NM-9000.A_047	Mortandad Sandia
TA-60-1	TA-60-1 Heavy Equipment Yard	Motor Pool and Metal Shop	Vehicle maintenance and fabricated metal products	P1 and AA1	NM-9000.A_047	Sandia
TA-60-2	TA-60-2 Warehouse	Warehousing	Vehicle fueling	P1	NM-9000.A_047	Sandia

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

EPC-CP-QP-2108		Revision: <b>0</b>		
Effective Date: 07/0	Effective Date: 07/09/2020 Next Review		Date: 07/09/2023	EST.1943
Environment, Safety, Health, Quality, Safeguards, and Security Directorate				
Environment Protection and Compliance – Compliance Programs Group				
Quality Proce	edure			
	MSGI	P Routine	Facility Inspecti	ons
Hazard Grading:	🛛 Low [	Moderate	High/Complex	
Usage Level:	Reference [	UET	Mixed: UET Sections:	
Status:	 □ New   [	Major Revision	Minor Revision	
	 Review w/No C			at & numbering system
Safety Basis:		Jusq		
·			r/Subject Matter Expert:	
Name:		Organization:	Signature:	Date:
Holly L. Wheeler		EPC-CP	Signature on File	07-08-20
	Derivative	Classifier:	Unclassified or 🗌	
Name:		Organization:	Signature:	Date:
Steven E. Wolfel		EPC-CP	Signature on File	07-08-20
		Approv	al Signatures:	
EPC-CP Reviewer:		Organization:	Signature:	Date:
Alethea Banar		EPC-CP	Signature on File	07-08-20
EPC-CP RLM:		Organization:	Signature:	Date:
Terrill W. Lemke, Te	am Leader	EPC-CP	Signature on File	07-08-20
EPC-CP RLM:		Organization:	Signature:	Date:
Taunia Van Valkenb	urg, Group Leader	EPC-CP	Signature on File	07-09-20
This copy is uncontrolled. Users are responsible for ensuring they work to the latest approved version. To document a required read, Login to <u>UTrain</u> , and go to the Advanced Search.				

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Inspections	Revision: 0	Effective Date: 07/09/2020

#### **REVISION HISTORY**

<b>Document Number and Revision</b> [Include revision number, beginning with Revision 0]	Effective Date [Document Control Coordinator inserts effective date]	<b>Description of Changes</b> [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, <i>MSGP Corrective Actions</i> .
EPC-CP-QP-023 R1	03/07/2019	Added question to inspection form, associated text to document, and renumbered steps. Removed reference to Los Alamos National Security, LLC. Added reference to LANL BMP Manual. Minor edits made.
EPC-CP-QP-2108, R0	07/09/2020	Supersedes EPC-CP-QP-023 R1. Reformat to new EPC-CP template, re-number procedure and forms to new EPC-CP procedure numbering system, and other edits.

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### 1.0 INTRODUCTION

The National Pollutant Discharge Elimination System (NPDES) Multi-Sector General Permit (MSGP), also referred to as the permit, contains specific environmental requirements for inspecting areas of Los Alamos National Laboratory (LANL) covered by the permit. This includes areas where industrial materials or activities are exposed to stormwater, areas identified as potential pollutant sources, areas where leaks and spills have occurred in the past three years, discharge points, and control measures used to comply with the effluent limits of the MSGP.

LANL inspectors and facility personnel are required to perform routine facility inspections for industrial stormwater discharge on LANL areas covered by the MSGP at least quarterly and document observations. Conditions (as described by the MSGP) found during an inspection, requiring a corrective action(s), are managed through EPC-CP-QP-022, *MSGP Corrective Actions*.

### 1.1 Purpose

Part 3.1 of the MSGP contains specific requirements for conducting and documenting periodic industrial routine facility inspections. This procedure governs the activities of personnel involved in conducting industrial routine facility inspections. It also contains information and specific steps to be used for identifying and documenting conditions in order to meet the permit requirements.

### 1.2 Scope

Requirements set forth in this document apply to personnel responsible for meeting the permit conditions on behalf of LANL industrial facilities covered by the MSGP. The MSGP requires periodic inspection of facilities and identification, documentation, and reporting of conditions, including those requiring corrective actions.

Inspections conducted under this procedure are documented using the Maintenance Connection Express<sup>™</sup> (MC Express) web application on a tablet or notebook style computer. (In the event of electronic hardware or web application failure, personnel may use a printed hard copy to conduct the inspection.)

### 1.3 Applicability

This procedure applies to Environmental Protection and Compliance–Compliance Programs (EPC-CP) technical staff, Deployed Environmental Professionals (DEPs), and other LANL staff who conduct inspections and monitoring activities at MSGP regulated LANL facilities.

#### 2.0 ROLES AND RESPONSIBILITIES

Specific roles and responsibilities for implementation of requirements contained in this procedure are provided below.

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#### 2.1 EPC-CP MSGP Stormwater Permitting and Compliance Team

EPC-CP MSGP Stormwater Permitting and Compliance personnel are fully knowledgeable of the specific regulatory requirements identified in the MSGP and are responsible for the following:

- Implementing this procedure;
- Performing routine facility inspections the last month or quarter of the year at regulated sites [depending on inspection frequency identified in site-specific Stormwater Pollution Prevention Plans (SWPPPs)];
- Performing "no exposure" site inspections once a year to ensure conditions of the "no exposure" exclusion are met;
- Performing routine facility inspections at inactive sites once a year;
- Identifying issues requiring a corrective action during any of the above inspections or assessments;
- Determining a condition of non-compliance;
- Notifying managers or legal counsel of non-compliances;
- Modifying the site-specific MSGP Routine Facility Inspection Forms (e.g., add or remove Best Management Practices (BMPs));
- Training personnel to use MC Express;
- Performing a quality review of routine facility inspections and "no exposure" site inspections; and
- Assisting customers with issues associated with MC Express.

#### 2.2 Deployed Environmental Professionals

DEPs are responsible for the following:

- Implementing this procedure;
- Knowledgeable of the requirements contained in site-specific SWPPPs within their assigned Facility Operations Directorate (FOD);
- Meeting qualification requirements identified in the Quality Assurance Project Plan EPC-CP-PIP-2101, NPDES *Multi-Sector General Permit Program Implementation Plan*;
- Being trained on EPC-CP-QP-022, *MSGP Corrective Actions;*
- Being trained to MSGP Routine Inspections OJT;
- Being familiar with industrial site and facility operations assigned to them so that they minimize sources of pollutants and pro-actively maintain controls to prevent issues that require corrective action;

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- Performing routine facility inspections throughout the year at regulated sites within their FOD (depending on inspection frequency identified in site-specific SWPPPs) and documenting results accurately;
- Acting as liaison between the FOD, Deployed Environment, Safety, and Health (DESH) Manager and facility/operations personnel to ensure corrective actions are addressed appropriately by overseeing maintenance and/or installation of additional controls;
- Educating appropriate facility/operations personnel on the MSGP and site-specific SWPPPs so they successfully implement the conditions of the permit; and
- Notifying EPC-CP MSGP stormwater personnel when additional or substitute BMPs have been installed or old BMPs have been removed so the site-specific MSGP Routine Facility Inspection Form can be modified.

## 2.3 EPC-CP Stormwater Permitting and Compliance Team Leader

The EPC-CP Stormwater Permitting and Compliance Team Leader is responsible for compliance oversight relative to the MSGP. The Team Leader works with the EPC-CP Group Leader to ensure adequate resources needed to implement the regulatory requirements identified in the MSGP are identified and environmental risks are assessed. The Team Leader will notify upper management of these required resources or environmental risks, as deemed necessary. In the event there is a dispute regarding the regulatory requirements contained in the MSGP, the Team Leader makes the final determination of the required action. The Team Leader notifies upper management of instances of non-compliance with the permit.

# 2.4 EPC-CP Group Leader

The EPC-CP Group Leader or designee is responsible for ensuring there are adequate resources to implement the regulatory requirements identified in the MSGP. The Group Leader or Team Lead also acts as the duly authorized signatory that certifies the Annual Report and MSGP Routine Facility Inspections conducted by EPC-CP personnel. The Group Leader notifies upper management of instances of non-compliance with the permit or other identified environmental risk.

# 2.5 DESH Manager

The DESH manager works with programmatic entities and the FOD to identify adequate resources for their industrial facilities to ensure permit requirements can be implemented. The DESH Manager is responsible for the performance of DEPs under their management and to ensure DEPs are trained and qualified. They also provide oversight by ensuring that industrial facilities complying with the MSGP and will notify upper management of instances of non-compliance with the permit or other identified environmental risk.

#### 3.0 PRECAUTIONS AND LIMITATIONS

#### 3.1 Precautions

The hazard rating for the activities described in this procedure is <u>LOW</u> and therefore, does not require an Integrated Work Document (IWD).

Personnel must wear appropriate clothing (e.g., boots, long pants, etc.) to perform work in the field.

Work may be discontinued during periods or conditions that make sites dangerous for worker safety or prevent personnel from safely accessing sites (e.g., weather-related events such as flash floods, flooding, lightning, wildfires, hail, icy roads, deep snow, or LANL operations such as firing shots or burns).

If conditions prevent fieldwork, document the conditions on the work order. Multiple attempts can be documented on the original form. If the target date cannot be met, the field personnel must contact the Program Lead no less than 24 hours before the target date for guidance.

#### 3.2 Limitations

In MC Express, document responses to each question on a work order by clicking the expand arrow located on the right side of the task line and changing the "Complete" or "Failed" line to "Yes." When using a hard copy form, mark the appropriate "Yes" or "No" check box.

Throughout this process, the field personnel will document comments and notations in the "Comments" field of the associated task line. If field personnel need more space, additional comments can be entered in the "Labor Report Update" field (see Section 5.2) when the work order is updated to "Complete" status. When using a hard copy form, document comments on the corresponding task line. If additional space is needed, comments can be entered in the "Labor Report" section at the bottom of the form.

Some terminology varies between the MC Express software and the Maintenance Connection (MC) desktop software.

- The "Reading" field in MC Express is the same field as "Reading Final" in MC desktop and "Meas." on a hard copy (printed) work order.
- The "Complete" option in MC Express is the same as a "Yes" answer; the "Failed" option in MC Express is the same as a "No" answer. MC desktop and hard copy (printed) work orders use "Yes" and "No" terminology.

Click the "Save" bar after all entries for a task line question have been completed and before proceeding to the next task line question. Failure to "Save" results in lost data entries.

#### 4.0 PREREQUISITE ACTIONS

#### 4.1 Planning and Coordination

- 1. Schedule work to be completed by the target date appearing on the inspection form or as requested by the MSGP Program Lead if an inspection form is not issued.
- 2. Inform (e.g., by e-mail) facility contacts (as needed) of the schedule for facility inspection work and locations up to a week (preferred) before but no later than the day before (for minor changes) to be added to the appropriate plan of the day (as necessary).
- 3. Gather the necessary equipment (see Section 4.2) for the work to be done.
- 4. Using the Safari or Chrome web browser on a tablet or notebook style computer, log into the MC Express application (http://express.maintenanceconnection.com) and confirm that the work order list displayed matches your sites. If the work order lists do not match, contact EPC-CP Data Management personnel for clarification.
- 5. In MC Express, click on the appropriate work order number to open the work order. The work order will open in the display to the Work Order Summary page.
- 6. Click on the "Tasks" bar to navigate to the work order Tasks page. See MC Express screen shot examples in Attachment 1.
- 7. Always log out of MC Express when you have finished work OR if work is interrupted.

#### 4.2 Special Tools, Equipment, Parts, and Supplies

Ensure the following equipment is available.

- Sturdy hiking boots or steel-toed shoes with soles that grip.
- Facility-specific PPE as required by IWD Part II.
- Cell phone (Only government cell phones are allowed in secure areas. See <a href="https://int.lanl.gov/policy/documents/P217.pdf">https://int.lanl.gov/policy/documents/P217.pdf</a> for requirements for using portable electronic devices on Laboratory property.)
- Copy of this procedure.
- Copy of facility specific SWPPP and map(s) (as needed).
- Current electronic or paper inspection form EPC-CP-QP-2108 R0 Form 1, *MSGP Routine Facility Inspection*.
- LANL issued tablet or notebook style computer with Safari web browser and Blackberry UEM<sup>™</sup> app (see <u>https://int.lanl.gov/policy/documents/P217.pdf</u> for requirements for using portable electronic devices on Laboratory property).
- Necessary access keys.

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#### 5.0 MSGP ROUTINE FACILITY INSPECTIONS

MSGP routine facility inspections are conducted by the DEP or other qualified facility personnel (as defined in the MSGP or as determined by MSGP Program Lead) during periods when the facility is in operation and during standard operating hours. Results of visual and analytical monitoring for the past year must be considered when planning and conducting an inspection. The inspections are performed on the following facility areas:

- Areas where industrial materials or activities are exposed to stormwater;
- Areas identified in the SWPPP and those that are potential pollutant sources;
- Areas where spills and leaks have occurred in the past;
- Discharge points; and
- Control measures used to comply with the effluent limits contained in the MSGP.

Routine facility inspections are conducted at least quarterly; however, some facilities may conduct monthly inspections (as specified in the facility specific SWPPP). At least once each calendar year, the routine facility inspections must be conducted during a period when stormwater discharge (either rain or snow) is occurring. During the inspection, you must look for the following:

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

Conditions requiring corrective action identified during an inspection, monitoring, or other means must be entered into the MSGP Corrective Action Report database by the DEP(s), EPC-CP stormwater personnel and/or other qualified facility personnel (as defined in the MSGP or as determined by MSGP Program Lead). Follow the process in EPC-CP-QP-022, *MSGP Corrective Actions* to address issues found during an inspection.

If the industrial facility is inactive and unstaffed and there are no industrial materials or activities exposed to stormwater, routine inspections may not be required. A determination of whether a facility is inactive or unstaffed is made in coordination with stormwater personnel from EPC-CP, as there are specific documentation and certification requirements that have to be met prior to discontinuing routine inspections. Such a facility is only required to conduct an annual site inspection.

If the industrial facility is eligible for a "no exposure" exclusion, routine inspections are no longer required. A condition of "no exposure" exists when all industrial materials and activities are

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protected by a storm resistant shelter (e.g., moved to an indoor location) to prevent exposure to rain, snow, snowmelt, and/or runoff. A determination of whether a facility is eligible for "no exposure" status is made in coordination with stormwater personnel from EPC-CP, as there are specific documentation and certification requirements that have to be met prior to discontinuing routine inspections. Such a facility is only required to conduct an annual site evaluation and recertification every five years.

# 5.1 Conducting the Inspection

See Attachment 1 for screen shot examples of EPC-CP-QP-2108 R0 Form 1, *MSGP Routine Facility Inspection* in MC Express. See Attachment 2 for an example of the inspection form in hard copy format. **Questions will be answered "Yes/Complete" or "No/Failed" unless the instructions specify "N/A" may also be used.** 

- **NOTE:** Each item number listed in red font below corresponds to a red numbered box on both screenshots and hard copy format.
  - [1] **ITEM 1**: Observe the weather at time of inspection. Document the weather and temperature in the "Comments" field of the task line (e.g., Temp. 78°F, sunny, wind less than 5mph).
  - ITEM 2: Observe and document the facility is free of previously unidentified discharges from and/or pollutants that have occurred since the last inspection. Describe any new discharges and the specific location in the "Comments" field of the task line.
  - [3] **ITEM 3**:

<u>IF</u> the response to ITEM 2 is "Yes", <u>THEN</u> answer this task line as "N/A".

OR

IF the response to ITEM 2 is "No",

<u>THEN</u> answer this task line as "Yes" and document the corrective action previously initiated for the discharge.

- [4] **ITEM 4**: Check the facility is free of discharges of pollutants at the time of inspection. Describe any pollutant discharge and the specific location in the "Comments" field of the task line.
- [5] **ITEM 5**: Check the facility is free of evidence of pollutants entering the drainage system OR the potential for pollutants entering the drainage system. Describe any discharge or potential discharge and the specific location in the "Comments" field of the task line.
- [6] **ITEM 6**: Check the outfall does not have any **new** evidence of erosion **since the last inspection**. Describe any erosion observed in the "Comments" field of the task line.

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- [7] **ITEM 7**: Check all flow dissipation devices are operating effectively and are not in need of repair. Describe any non-functional status of devices in the "Comments" field of the task line (e.g., repair berm, replace rip rap, etc.).
- [8] **ITEM 8**: Check the outfall is free of evidence of pollutants in the discharge and/or the receiving water. Describe any pollutants observed in the "Comments" field of the task line (e.g., sediment from nearby erosion, etc.).
- [9] **ITEM 9**: Check the outfall is free of unauthorized non-stormwater discharges. Describe any unauthorized discharges observed in the "Comments" field of the task line (e.g., street sweeper emptied contents at Outfall 001, etc.).
- [10] Repeat Steps 6 through 9 for each outfall shown on the work order, if the location has more than one outfall.
- [11] **ITEM 10**: Check each control measure is operating effectively. Describe any nonoperational condition of the control measure (e.g., erosion, damage, etc.,) and if the control measure needs maintenance, repair, or replacement in the "Comments" field of the task line.
  - [a] Determine if additional controls are necessary, or that existing controls are insufficient and require replacement with a different type of control.
  - [b] The DEPs are responsible for the selection and oversight of proper installation of appropriate control measures per guidance provided in the LANL Stormwater BMP Manual.
- [12] Repeat Step 11 for each control measure shown on the work order, if the location has more than one control measure.
- [13] **ITEM 11**: Check each sector of NPDES specified industrial area/activity is inspected for exposure to stormwater (e.g., metal fabrication; foundry operations; power generation; asphalt production; fabricating timber products; material recycling; warehouse and transportation activity; treatment and storage of hazardous waste).
  - [a] Determine if the control measures associated with each industrial area/activity are appropriate for the activity, effectively controlling stormwater exposure, and operating.
  - [b] Describe any non-operational condition of the control(s) and needed maintenance or a description of corrective actions in the "Comments" field of the task line.
  - [c] For industrial activities that do not occur at the facility, select "N/A" on that task line.
- [14] Repeat Step 13 for each industrial area/activity shown on the work order, if the facility has more than one sector of NPDES specified industrial area/activity.

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- [15] **ITEM 12**: Check the facility is free of any incidence of non-compliance not documented elsewhere on the inspection form. Describe any additional incidences of non-compliance in the "Comments" field of the task line.
- [16] **ITEM 13**: Check the facility meets the MSGP requirements with existing control measures. Describe any additional control measures needed to comply with the Permit.
- [17] After all task lines have been completed, make sure you have clicked the "Save" bar at the bottom of the page.

#### 5.2 Completing the Inspection Form

See Attachment 1 for completing EPC-CP-QP-2108 R0 Form 1 in MC Express and Attachment 2 for a hard copy example.

- [1] Ensure the inspection form has been filled out completely.
- [2] Click the "Back" arrow button in the upper left hand corner to exit the work order Tasks page and return to the Work Order Summary page.
- [3] Click the checkered flag A in the upper right corner of the work order Summary page to open the Work Order Status Update page. MC Express auto-populates the date and time fields.

#### CAUTION

MC Express automatically changes the work order status to "Closed."

- [4] **ITEM 14**: Click on the expand arrow located on the right side of the "New Status" field and select "Completed" from the available dropdown menu.
  - [a] Ensure the date and time that is auto-populated are the date and time that the work was completed and *not* the date/time the form was filled out.
  - [b] <u>IF</u> work needs to be performed over multiple days, <u>THEN</u> 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] <u>IF</u> using a hard copy form, <u>THEN</u> write the date and time the work was completed.
- [5] **ITEM 15**: The field personnel must type or write his/her name in the "Labor Report Update" field.
- [6] Additional notes, observations, or site conditions not documented in a task line "Comments" field can be documented in the "Labor Report Update" field.

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- [7] Scroll down the page to the "Signature" bar and click the expand arrow on the left side of the bar to open the "Signature" field.
  - [a] **ITEM 16**: Capture an electronic signature by drawing with a finger on the tablet screen.
    - **NOTE:** The mouse must be used to sign electronically when using MC Express on a desktop screen (not a tablet).
  - [b] If using a hard copy form, the field personnel will sign his/her name and write in the date of when the form was signed.
  - [c] By electronically signing the work order, field personnel certifies that the information submitted is "true, accurate, and complete."
- [8] Click on the "Save" bar at the bottom of the page to close the "Signature" field.

#### 5.3 Completing the Certification Statement

Follow Steps 1 through 5 in this section if the inspection form was completed electronically (see Attachment 1). If the inspection form was completed on a hard copy form, skip to Step 6.

- Using the Chrome web browser on a desktop computer, navigate to <u>http://www.maintenanceconnection.com</u>. Log into the MC desktop application using your login credentials.
- [2] Click "Open" in the tool bar at the top of the page to open the MC module selections. Click on the "Work Orders" module.
- [3] Click on the "Search" tab at the top left of the page.
  - [a] Enter the work order number in the "Search Value" field.
  - [b] Click the arrow to the right of the "Search Value" field to open the work order in the right split screen.
- [4] Click on the "Report" tab at the top of the page and click the "Work Order Statement" sub-tab.
- [5] Click the Tools drop down menu in the top right corner of the page.
  - [a] Select "Print" from the options.
  - [b] When the print dialog box opens, select the print options as appropriate for your local printer.
- [6] **ITEM 17**: Obtain a printed name and title, signature, and date on the certification statement.

The certification statement will be signed no more than 14 days after completion of the inspection and a copy sent to the EPC-CP Program Lead or designee.

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- [a] The routine facility inspection form must be certified with a signature from a manager that meets the definition of a signatory in MSGP Permit Section
   B.11.A (e.g., FOD, Operations Manager, DSESH Group Leader, EPC-CP Group Leader, EPC-CP Team Lead).
- [b] The manager is certifying the information submitted is "true, accurate, and complete" by signing the inspection form.
- [7] Attach the completed, signed, and certified inspection form to the facility SWPPP.
- [8] Submit a copy of the completed form to the MSGP Program Lead.

# 6.0 TRAINING

The following personnel require training before implementing this procedure.

- DESH Group and Team Leaders
- EPC-CP MSGP stormwater compliance personnel
- DEPs
- Other personnel identified as being required to conduct stormwater assessments as part of their job duties

All EPC-CP personnel that execute the activities specified in this procedure must meet the minimum qualification and training requirements for their position as identified EPC-CP-PIP-2101, NPDES *Multi-Sector General Permit Program Implementation Plan*. This will include "self-study" (required reading) for this procedure as assigned and documented in accordance with ADSH-TPP-301, *ADESH Training Program Plan*.

Contract personnel that execute the activities specified in this procedure will be qualified and trained as required by the Exhibit D and Exhibit F. In addition, contract personnel will be required to complete "self-study" (required reading) of this procedure.

# 7.0 RECORDS

MSGP Routine Facility Inspection forms are signed and certified by individual LANL facilities. These completed forms are maintained in the facility's SWPPP and managed by the facility's document management system. The MSGP team may retain a copy for reference purposes.

Below are records generated as a result of implementing this procedure. Records generated are identified by title and type.

Record Title	QA Record	Non-QA Record
EPC-CP-QP-2108 R0 Form 1, MSGP Routine Facility Inspection	$\boxtimes$	

#### 8.0 DEFINITIONS AND ACRONYMS

#### 8.1 Definitions

See LANL <u>Definition of Terms</u>.

**Best Management Practice (BMP)** – Schedules of activities, prohibitions of practices, maintenance procedures, and other management practices to prevent or reduce the pollution of "waters of the United States." BMPs also include treatment requirements, operating procedures, and practices to control plant site runoff, spillage or leaks, sludge or waste disposal, or drainage from raw material storage (*40 CFR Part 122.2*).

**Control Measure** – Any BMP or other method (including effluent limitations) used to prevent or reduce the discharge of pollutants to waters of the United States.

#### 8.2 Acronyms

See LANL Acronym Master List.

BMP	Best Management Practice
EPC-CP	Environmental Protection and Compliance – Compliance Programs
DEP	Deployed Environmental Professional
DESH	Deployed Environment, Safety, and Health
FOD	Facility Operations Director
LANL	Los Alamos National Laboratory
MC	Maintenance Connection
MC Express	Maintenance Connection Express
MSGP	Multi-Sector General Permit
NPDES	National Pollutant Discharge Elimination System
SWPPP	Stormwater Pollution Prevention Plan

#### 9.0 REFERENCES

Federal Register, Final National Pollutant Discharge Elimination System (NPDES) General Permit for Stormwater Discharges from Industrial Activities. Federal Register: June 16, 2015, Volume 80, Number 115.

Los Alamos National Laboratory Storm Water BMP Manual

#### **10.0 ATTACHMENTS**

Attachment 1: Screenshot Examples of EPC-CP-QP-2108 R0 Form 1, MSGP Routine Facility Inspection in MC Express

Attachment 2: EPC-CP-QP-2108 R0 Form 1, MSGP Routine Facility Inspection Hard Copy Example

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# Attachment 1: Screenshot Examples of EPC-CP-QP-2108 R0 Form 1, *MSGP Routine Facility Inspection* in MC Express

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# Work Order Tasks Page (Section 5.1, Steps 1-5)

-		MC Express		
WORK ORDER: MSG Tasks	P-RI-52112		Pa	•
Tasks 🕥 🤇			Q	
Weather Informat	tion			
20 Describe the v	weather at time of inspection and	d document the temperature (F°).		*
Within the Facilit	y Boundary			
40 2 Is the facility	free of previously unidentified d	ischarges from and/or pollutants that have occurr	ed since the last inspection if "No" describe.	*
50 3 If "No" has a C	AR been previously initiated for	this new discharge?		*
60 4 Is the facility	free of discharge of pollutants at	t the time of inspection? If "No" describe.		*
70 Is the facility	free of evidence of, or the poter	ntial for, pollutants entering the drainage system.	If "No" describe.	+
0	Refresh	1 <u>0</u>	List	

# Work Order Tasks Page (Section 5.1, Steps 6-9)

-		MC Express		
WORK ORDE	R: MSGP-RI-52112		1950	•
		maintenance and repairs, failed control mea ption of corrective actions in relevant task c		nt)
	of Evidence of Erosion? If "No", :: [074] Monitored Outfall	, describe.		4
	Dissipation Devices Operating :: [074] Monitored Outfall	Effectively? If "No", describe.		4
	of Evidence of Pollutants in Di :: [074] Monitored Outfall	scharges and/or Receiving Water? If "No", describe.		4
	of any unauthorized non-storm :: [074] Monitored Outfall	water discharges? If "No" describe.		4
	of Evidence of Erosion? If "No", :: [073] Substantially Identical			4
	Dissipation Devices Operating :: [073] Substantially Identical			ł
	of Evidence of Pollutants in Di :: [073] Substantially Identical	scharges and/or Receiving Water? If "No", describe. Outfall		4
	of any unauthorized non-storm 1: [073] Substantially identical	water discharges? If "No" describe. Outfall		4
	Refresh	List		

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# Attachment 1: Screenshot Examples of EPC-CP-QP-2108 R0 Form 1, *MSGP Routine Facility Inspection* in MC Express (cont.)

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# Work Order Tasks Page (Section 5.1, Step 11)

( <del>`</del>		MC Express		
WORK ORDER: MSGP-	RI-52112		A	•
		tenance and repairs, failed cor evant task comments).	ntrol measures that need replacmen	nt, or
180 Control Measure Asset: [03005030	is operating effectively? I 040002] Asphalt Berm	f "No" describe condition & need for /	Maintenance, Repair, or Replacement.	*
190 Control Measure Asset: [03005040		f "No" describe condition & need for $\ensuremath{\boldsymbol{\lambda}}$	Maintenance, Repair, or Replacement.	*
	is operating effectively? I 200004] EnviroSoxx w/ Me		Maintenance, Repair, or Replacement.	+
0	Refresh		List	

# Work Order Tasks Page (Section 5.1, Step 13)

$\leftarrow$	MC Express			
WORK ORDER	R: MSGP-RI-52112		P	$\odot$
	ty exposed to stormwater (ide sk comment).	ntify needed mainteance or a de	escription of corrective actions in	
220 11 Materia	al loading/unloading and storage area	as: controls adequate (appropriate, effe	ective, and operating)? If "No" describe.	+
230 Transfe	er areas for substances in bulk: contr	ols adequate (appropriate, effective, a	nd operating)? If "No" describe.	<u>+</u>
240 Produc	t/chemical storage areas (raw mater	rial): controls adequate (appropriate, el	ffective, and operating)? If "No" describe	. <u>+</u>
250 Liquid	tank storage/secondary containment	:: controls adequate (appropriate, effec	tive, and operating)? If "No" describe.	+
i	Refresh		List	

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# Attachment 1: Screenshot Examples of EPC-CP-QP-2108 R0 Form 1, *MSGP Routine Facility Inspection* in MC Express (cont.)

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# Work Order Tasks Page (Section 5.1, Steps 15 and 16)

-		MC Express		
WORK ORDER: Tasks	MSGP-RI-52112		P	•
Non-Complia	nce			
400 12 Free of 1	incidents of observed non-complianc	e not already identified above? If "No"	describe.	*
Additional Co	ontrol Measures			
420 13 Are per	nit requirements satisfied with exist	ing control measure(s)? If "No" describe	additional control measures needed.	*
6	Refresh		List	

#### Work Order Status Update Page (Section 5.2, Steps 4-6)

<del>(</del>	MC Express	
ORK ORDER: MSGP atus Update	-RI-52112	
Issued /	Completed	
New Status 1	4	
Completed		0
Date		
1/23/2019 10:39	AM	
Percent Comple	ete 100%	
Labor Report U	pdate 15	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
Select Comments		0
Jane Doe		
) c	ancel 🛷	Save

Work Order Status Update Page (Section 5.2, Step 7)

+	B	MC Express	
WORK OF Status Upd	RDER: MSGP-RI-	52112	
C Sig	nature 16		
(Remo	<u>2/(8)</u>		
	Jane	Dл	
5	Cancel		Save

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# Attachment 2: MSGP Routine Facility Inspection Hard Copy Example, EPC-CP-QP-2108 R0 Form 1

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#### Work Order MSGP-RI-52112 Los Alamos National Laboratory MSGP Routine Inspection Printed 1/23/2019 - 12:45 PM (Duplicate Copy) Maintenance Details Requested By: Admin, Jane on Target: 12/31/2020 MSGP Program 1/23/2019 12:30:00 PM Priority/Type: / Inspection - RG121.9 Taken By: Banar, Alethea Department: Utilities and Infrastructure A-3-38 Carpenter Shop Procedure: MSGP Routine Facility Inspection (EPC-CP-Contact: Admin, Jane QP-2108 R0 Form 1) Phone: 123-4567 Last PM: N/A Reason: Example MSGP Routine Facility Inspection Tasks ŧť. Description Meas. No N/A Yes Weather Information 1 20 Describe the weather at time of inspection and document the temperature (F1) Within the Facility Boundary Is the facility free of previously unidentified discharges from and/or pollutants that have occurred 2 40 since the last inspection? If "No" describe. • 3 50 If "No" has a CAR been previously initiated for this new discharge? г 4 60 Is the facility free of discharge of pollutants at the time of inspection? If "No" describe Is the facility free of evidence of, or the potential for, pollutants entering the drainage 5 70 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) 6 Monitored Outfall [074] Free of Evidence of Erosion? If "No", describe 90 E Monitored Outfall [074] Flow Dissipation Devices Operating Effectively? If "No", 7 100 describe Monitored Outfall [074] Free of Evidence of Pollutants in Discharges and/or Receiving 8 110 Water? If "No", describe Monitored Outfall [074] Free of any unauthorized non-stormwater discharges? If "No" 9 120 describe Substantially Identical Outfall [073] Free of Evidence of Erosion? If "No", describe 130 Substantially Identical Outfall [073] Flow Dissipation Devices Operating Effectively? If 140 "No", describe Substantially Identical Outfall [073] Free of Evidence of Pollutants in Discharges and/or Receiving Water? If "No", describe. 150 Substantially Identical Outfall [073] Free of any unauthorized non-stormwater 160 discharges? If "No" describe. п. Control Measures (identify needed maintenance and repairs, failed control measures that need replacment, or a 10 description of corrective actions in relevant task comments). Asphalt Berm [0300503040002] Control Measure is operating effectively? If "No" 180 describe condition & need for Maintenance, Repair, or Replacement Rip Rap [0300504060001] Control Measure is operating effectively? If "No" describe 190 condition & need for Maintenance, Repair, or Replacement. EnviroSoxx w/ MetalLoxx [0300503200004] Control Measure is operating effectively? If 200 "No" describe condition & need for Maintenance. Repair, or Replacement **D** Area/Activity exposed to stormwater (identify needed mainteance or a description of corrective actions in relevant task 11 comment). Material loading/unloading and storage areas: controls adequate (appropriate, effective, 220 and operating)? If "No" describe. Transfer areas for substances in bulk: controls adequate (appropriate, effective, and operating)? If "No" describe 230 E. EPC-CP-QP-2108 R0 Form 1

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# Attachment 2: MSGP Routine Facility Inspection Hard Copy Example, EPC-CP-QP-2108 R0 Form 1 (cont.)

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240	Product/chemical storage areas (raw material): controls adequate (appropriate, effective, and operating)? If "No" describe.		п	
250	Liquid tank storage/secondary containment: controls adequate (appropriate, effective, and operating)? If "No" describe.	E.	E.	E
260	Industrial processing and finished product storage areas; controls adequate (appropriate, effective, and operating)? If "No" describe.			E
270	Equipment operation and maintenance areas: controls adequate (appropriate, effective, and operating)? If "No" describe.		П	Б
280	Fueling areas: controls adequate (appropriate, effective, and operating)? If "No" describe.	π	Π	Г
290	Outdoor vehicle and equipment washing areas: controls adequate (appropriate, effective, and operating)? If "No" describe	п	E	
300	Machinery: controls adequate (appropriate, effective, and operating)? If "No" describe		- E	101
310	Waste handling and disposal areas: controls adequate (appropriate, effective, and operating)? If "No" describe.			E
320	Erodible areas/construction: controls adequate (appropriate; effective, and operating)? If "No" describe.	. []		
330	Locations and sources of run-on to the site: controls adequate (appropriate, effective, and operating)? If "No" describe.		п	Г
340	Salt storage piles or pile containing salt controls adequate (appropriate, effective, and operating)? If "No" describe.	Ē		Г
350	Dust generation and vehicle tracking: controls adequate (appropriate, effective, and operating)? If "No" describe.	Π		E
360	Housekeeping (Industrial materials/residues/trash in contact with stormwater); controls adequate (appropriate, effective, and operating)? If "No" describe:			
370	Leaks and spills: controls adequate (appropriate, effective, and operating)? If "No" describe	E		n
380	Sector A [03005-] Wood processing, transport or treated wood storage areas: controls adequate (appropriate, effective, and operating)? If "No" describe		П	E
Non-C	ompliance			
400	Free of incidents of observed non-compliance not already identified above? If "No" describe		E	E
Andata	and Capital Measures			
420	Are permit requirements satisfied with existing control measure(s)? If "No" describe additional control measures needed.		п	n
	Report		-	_
Compl	eted: 1/23/2019 10:39:00 AM			
Report	: [Additional notes, observations, or site conditions not documented in Task Line Comments field]			
	Jane Doe			
	(w-LD of 1/23/2019			
l confir	Asignature / Name Date Signature / Name m the information as recorded is true, accurate and complete.	-	Date	
		EPC-CP-	QP-2108	R0 F

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# Attachment 2: *MSGP Routine Facility Inspection* Hard Copy Example, EPC-CP-QP-2108 R0 Form 1 (cont.)

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#### 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)

Date	
EPC-CP-QP-2108	R0 For
	EPC-CP-QP-2109

ATTACHMENT 17: EPC-CP-QP-022, MSGP CORRECTIVE ACTIONS

Revision: 3



Effective Date: 12/20/2018

# Environment, Safety, Health, and Quality, Safeguards and Security Directorate

**Environmental Protection and Compliance Division – Compliance Programs** 

# **Quality Procedure**

# **MSGP Corrective Actions**

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#### **Revision History**

<b>Document Number and Revision</b> [Include revision number, beginning with Revision 0]	<b>Effective Date</b> [Document Control Coordinator inserts effective date]	<b>Description of Changes</b> [List specific changes made since the previous revision]
0	08/10	New Document.
1	11/10	Incorporated EPC-CP-QP-062 <i>MSGP Routine Inspections</i> into this document.
2	01/13	Biennial revision, new template implemented.
EPC-CP-QP-022 R3	12/202018	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.

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# 1.0 INTRODUCTION

The National Pollutant Discharge Elimination System (NPDES) Multi-Sector General Permit (MSGP) contains specific environmental requirements for identifying, implementing, documenting and reporting conditions requiring corrective actions. Laboratory personnel (the Deployed Environmental Professionals (DEPs) and Environmental Protection and Compliance Division – Compliance Programs (EPC-CP) Storm Water Team (also referred to as EPC-CP MSGP stormwater personnel) are required to perform routine facility inspections and document all conditions requiring corrective actions found on an inspection form (see EPC-CP-QP-023). 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 at Los Alamos National Laboratory (LANL) involved in identifying, implementing, documenting and entering a condition requiring corrective action, including a permit limit exceedance, into the MSGP Corrective Action Report (CAR) Findings database or CAR database. Part 4.4 of the MSGP contains specific documentation requirements relative to corrective actions. 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 the 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

- 2.1 The hazard level for field activities and office work described in this procedure is a <u>LOW hazard</u> rating and does not require an Integrated Work Document (IWD).
- 2.2 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 (<u>https://msgp-car.lanl.gov/forms/frmservlet?config=msgp\_car</u>). Facility Operations Directors (FODs), Deployed Environment, Safety, and Health (DESH) Managers and Operations (Ops) 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:

- LANS issued tablet or notebook style computer with Safari web browser and Blackberry UEM™app. (see <u>https://int.lanl.gov/policy/documents/P217.pdf</u> for requirements on using portable electronic devices 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 (some sites require steel or composite toed shoes).
- Safety glasses if required by site.
- Cell phone (only government cell phones with batteries removed are allowed in secure areas.) See <a href="https://int.lanl.gov/policy/documents/P217.pdf">https://int.lanl.gov/policy/documents/P217.pdf</a> for requirements on using portable electronic devices 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 stormwater controls (Best Management Practices [BMPs], 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 will be 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 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 exceedance notification 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 water quality 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. In addition, they shall be appropriately trained to meet the job qualifications identified in the *Quality Assurance for Stormwater Multi-Sector General Permit for Industrial Activities Program* (ENV-CP-QAPP-MSGP) and shall be familiar with the regulatory requirements identified in the MSGP, demonstrated by achieving a satisfactory score on the *MSGP Routine Facility Inspections* on-the-job training course #53040. Further, they shall be familiar with facility operations and controls to minimize potential pollutant sources and proactively maintain controls 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 liaison between the FOD, DESH Manager and facility/operations personnel to ensure all corrective actions are addressed appropriately by overseeing maintenance and/or installation of additional controls, as needed. DEPs are responsible for ensuring corrective action(s) is completed per MSGP requirements and the corrective action timeline (see Sections 5.2.1 and 5.2.2 of this procedure). They will 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 are responsible for identifying the source and maintaining existing controls or implementing additional controls, as necessary, to prevent further exceedances.

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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.

DEPs will notify the EPC-CP MSGP data administrator or MSGP Program Lead of key personnel changes (FOD, DESH Manager, Ops Manager, DEP) to ensure automated CAR status notifications are distributed to the appropriate personnel.

# CAUTION

# Failure to appropriately control pollutant discharges can result in fines and penalties.

Implementing the same control measure 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 identified in the MSGP. Per the MSGP, documentation is required in the SWPPP that justified the selection, design, installation and implementation of a control measure to ensure effluent limits are met.

# 4.3 EPC-CP Storm Water Team Leader

The EPC-CP Storm Water 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. 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 will notify 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 also acts as the duly authorized signatory that certifies the Annual Report or Routine Facility Inspections conducted by EPC-CP personnel. The group leader will notify upper management of instances of non-compliance with the permit or other identified environmental risk.

# 4.5 DESH Manager

The DESH Manager shall work with programmatic entities and the FOD to identify resources for their industrial sites to ensure permit requirements can be implemented. The DESH Manager is responsible for the performance of DEPs under their management. They also provide oversight for ensuring that industrial sites are complying with the MSGP and are responsible for notifying upper management of instances of non-compliance with the permit or other identified environmental risk they become aware of.

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#### 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. It is the FOD's responsibility to maintain trained and qualified DEPs and Waste Management Coordinators (WMCs) on staff.

#### 5.0 PROCESS DESCRIPTION

Requirements regarding corrective actions are described in Part 4 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

#### **Deployed Environmental Professional (DEP)**

- [1] <u>IF</u> any of the following conditions are identified, <u>THEN</u> 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:
  - An unauthorized release or discharge (e.g., spill, leak, or discharge of nonstormwater not authorized by the MSGP [see Section 5.6 of this procedure for a description of allowable discharges]);
  - An inspection or evaluation of the facility by an EPA official and/or local or State entity, determines that modification to the control measures are necessary to meet the non-numeric effluent limits in the MSGP;
  - 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;
  - 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;
  - The average of four quarterly sampling results exceeds an applicable benchmark. 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., if the sum of quarterly sample results to date is more than four times the benchmark level) this is considered a benchmark exceedance;
  - If effluent limitation guidelines are exceeded at the Asphalt Batch Plant (Sector D); or
  - If impaired water quality standards are exceeded.

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#### DEP and/or EPC-CP MSGP stormwater personnel

[2] Enter all conditions requiring a corrective action into the EPC-CP MSGP CAR database.

#### **DEP and/or Facility Personnel**

- [3] Take immediate action to mitigate the condition requiring a corrective action.
- [4] If needed, follow the permit timeline and process for individual corrective actions that require extensive maintenance.
- [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.

#### 5.2 Corrective Action Deadlines and Documentation

Specific deadlines for taking corrective action and required documentation are provided in the subsections below.

#### 5.2.1 Immediate Action

#### **DEP and/or Facility Personnel**

- [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] All reasonable steps necessary to minimize or prevent the discharge of pollutants 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.
  - [c] Minimize or prevent the discharge of pollutants until a permanent solution (if necessary) is installed and made operational.
  - [d] Any corrective action resulting in a change to a stormwater control or procedure (documented in the SWPPP) requires modification of the SWPPP within 14 calendar days of completing corrective action work.

#### NOTE

For minor conditions, immediate action is often sufficient and no additional action is necessary.

[2] <u>IF</u> a condition is identified at a time in the work day when it is too late to initiate corrective action (i.e., 3:00 pm or later), <u>THEN</u>:

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- [a] Corrective action must begin no later than the following work day.
- [b] Implement the requirements identified in Section 5.2.1 [1] above.

# CAUTION

Solely calling or e-mailing personnel requesting 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 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**

- [1] <u>IF</u> additional action is required, <u>THEN</u>:
  - [a] Complete the corrective action (e.g., install a new or modified control and make it operational or complete the repair) <u>before the next storm event or within 14</u> <u>calendar days</u> from the time of discovery.
  - [b] Any corrective action resulting in a change to a stormwater control or procedure documented in the SWPPP requires modification of the SWPPP within 14 calendar days of completing corrective action work.
- [2] **IF** completion of the corrective action is <u>infeasible</u> within the 14-day timeframe, **THEN**:
  - [a] Document the reasoning in the database.
  - [b] Provide a schedule for completion of the corrective action in the database.

# NOTE

Completion of the corrective action cannot exceed 45 days from the time of discovery without having to notify EPA. These time intervals are not grace periods, but are schedules considered reasonable for documenting finding(s) 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 are not allowed to persist indefinitely. In no instance will the corrective action remain open indefinitely (Part 4.3.2 of the MSGP).

# 5.2.3 Corrective Action Documentation

# DEP and/or EPC-CP

[1] Document existence of any of the conditions listed in Section 5.1 [1] of this procedure in the CAR database within 24 hours of becoming aware of such condition (or if identified late in the work day, by the following work day).

- [2] Include the following information in the documentation:
  - Description of the condition triggering the need for corrective action review. For any spills or leaks, include the following information:
    - a description of the incident including material, date/time, amount, location, and reason for spill;
    - any leaks, spills or other releases that resulted in discharges of pollutants to waters of U.S., through stormwater or otherwise;
  - Date the condition was identified; and
  - Description of immediate actions taken (Part 4.3.1 of the MSGP) to minimize or prevent the discharge of pollutants. For any spills or leaks, include response actions, the date/time clean-up was completed, notifications made (if any), and staff involved. Also include any measures taken to prevent the reoccurrence of such releases (Part 2.1.2.4 of the MSGP).
- [3] Provide the dates when each corrective action was initiated and completed (or is expected to be completed).
  - [a] If applicable, document why it is infeasible to complete the necessary installations or repairs within the 14-day timeframe, and
  - [b] Document your schedule for installing the controls and making them operational as soon as practicable after the 14-day timeframe.
  - [c] **IF** EPA must be notified regarding an extension of the 45-day timeframe, **THEN** the DEP must document the rationale for an extension.

#### **EPC-CP MSGP stormwater personnel**

[4] Prepare and submit 45-day exceedance notifications based on information entered into the CAR database by the DEPs.

#### DEP

- [5] Ensure that the information in the CAR database is kept up-to-date, to include the following:
  - [a] a thorough description of the nature of the condition requiring corrective action,
  - [b] corrective action(s) taken and/or outstanding,
  - [c] the steps and schedule for completing a corrective action (if not completed within 14 days), and
  - [d] rationale for why the corrective action cannot be completed within 45-days.

# 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

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violation. Additionally, failing to take corrective action in accordance with Part 4 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 4.5 of the MSGP).

# 5.4 Substantially Identical Outfalls

When the condition requiring corrective action is associated with an outfall that has been identified as a "substantially identical outfall" (see Parts 3.2.3 and 6.1.1 or the MSGP), a review will assess the need for corrective action for all related substantially identical outfalls. Any necessary changes to control measures that affect these other outfalls 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 Part 4.3 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 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 drainage;
- Landscape watering provided all pesticides, herbicides, and fertilizer have been applied in accordance with the approved labeling;
- Pavement wash waters where no detergents or hazardous cleaning products are 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 5.2.3 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

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material and sweeping, using hydrophobic mops/rags) and you have implemented appropriate control measures to minimize discharges of mobilized solids and other pollutants (e.g., filtration, detention, settlement);

- Routine external building 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);
- Uncontaminated ground water or spring water;
- Foundation of footing drains where flows are not contaminated with process materials; and
- Incidental windblown mist from cooling towers that collects on rooftops or adjacent portions of your facility, but not intentional discharges from the cooling tower (e.g., "piped" cooling tower blowdown or drains).

# 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 will be used to populate a report that will be 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 internet explorer, access the CAR database at <u>https://msgp-car.lanl.gov/forms/frmservlet?config=msgp\_car</u>.
- [2] From the main screen, click on "Enter New Corrective Action."
  - [a] Select the "Corrective Action Header" tab.
  - [b] 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 "List" tab and selecting a facility (refer to Attachment 2 for a list of available facilities).
    - Item 2: Date/Time problem was identified (mm/dd/yyyy hh:mm) (*the inspection date or the date you first become aware of the issue*).

There must be a space between the date (mm/dd/yyyy) and the 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

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this procedure for corrective action deadlines). Do not leave time as 00:00 (the system default) unless the action occurred at midnight.

Item 3: 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.)

The existence of any of the conditions listed in Section 5.1 of this procedure must be documented in the CAR database within 24 hours of becoming aware of such condition (or if identified late in the work day, by the following work day).

• Item 4: FOD Responsible for CA (Name & Org) by clicking in the box. FOD designations (for example "STO") and the associated name list will pop up. Select the appropriate FOD.

Contact the EPC-CP MSGP Program Lead at 667-1312 or <u>hbenson@lanl.gov</u> if the FOD name or organization is incorrect, so this can be corrected.

- Item 5: Describe Specific Evaluation Location (for example, "Northeast corner of Building TA-3-66.")
- Item 6: Inspector Z-Number by clicking in the box, which will populate with the Z number of the person who is logged into the database and performing entry. In most instances, the DEP will be identified as the inspector.
- Item 7: Person Identifying Condition Z-Number by clicking in the box, which will populate with the Z number of the person who is logged into the database and peforming entry. If the person identifying the condition is someone other than the inspector, enter that person's Z-number.

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: 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 of the above information is entered correctly, click "Save" and go to Step 3.

All boxes identified with a red asterisk are "required fields" meaning the form cannot be saved unless these fields are completed. For the purpose of fulfilling

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corrective action documentation requirements (see Section 5.2.3 of this procedure), all applicable fields are required fields.

The system will automatically assign a Corrective Action Report identification (ID) number and move to the "Corrective Action Details" tab.

- [c] Select the "Corrective Action Details" tab.
- [d] Enter the following:
  - Item 11: Identify the condition triggering the need for this review by clicking on the "List" button and selecting the appropriate condition or, if none of the available conditions fit the issue, selecting "Other" and entering a description of the condition (refer to Attachment 2 for a list of available conditions/finding descriptions).

These conditions are described in Section 5.1 of this procedure. 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 is set to "Other," enter a description of the condition in this field.
- Item 13: Briefly describe the nature of the problem identified during the inspection (e.g., erosion, damage to a BMP, 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 Parts 4.1 and 4.2 of the MSGP) will require documentation in the CAR database even though the condition was not identified during an inspection.

- Item 14: Enter how the problem was identified by clicking on the "List" button and selecting the appropriate option, or if none of the available options fit, selecting "Other."
- Item 15: If "Other" is selected for Item 14, enter a description of how the problem was identified in this field.
- Item 16: 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 17: Indicate whether the problem was identified at a Substantially Identical Outfall (see Section 5.4 of this procedure) by typing "Y" for yes and "N" for no.

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- Item 18: If the answer to Item 17 is "Y," enter the associated SIO(s) in this field. If the answer to Item 17 is "N," leave this field blank. SIOs are identified in the site-specific SWPPPs. For assistance with identifying SIOs contact the MSGP Program Lead.
- Item 19: If the answer to Item 17 is "Y," describe how the corrective action taken is appropriate for all SIOs (see Section 5.4 of this procedure), document any additional corrective action(s) needed for any of the SIOs, or document why no additional action is needed for the SIOs. If the answer to Item 17 is "N," leave this field blank.
- Item 20: Did/will the corrective action require modification to the SWPPP? Type in "Y" for yes and "N" for no (see Section 5.1 of this procedure for conditions that require SWPPP review and revision).
- Item 21: 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, will be documented in accordance with permit requirements.

 Item 22: Date/Time corrective action was completed OR expected completion Date/Time (mm/dd/yyyy hh:mm).

If the corrective action has not been completed, enter an expected completion date and time. 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 <u>or</u> 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, and to forecast where a 45-day exceedance notification to EPA is required (see Section 5.2.3 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 23: If the corrective action is not or will not be completed within 14 days, provide the status of the corrective action at the end of the 14 day timeframe, the rationale for why it is infeasible to complete the corrective action within 14 days, and describe any remaining steps (including timeframe/schedule associated with each step) necessary to complete the corrective action.
- Item 24: Date EPA 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 25: Once all of the above information is entered correctly, click "Save" so the corrective action information is retained.

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[3] **<u>IF</u>** there are additional conditions to enter requiring corrective action, as described in Section 5.1 [1],

THEN perform these steps:

- [a] Return to the "Corrective Action Header" tab.
- [b] Click the "Enter New Corrective Action" button in the lower left hand corner of the screen.
- [c] Click "Back to Record Selection" to return to the list of saved conditions requiring corrective action on the initial screen (if desired).

#### 5.8 Updating Corrective Actions

#### DEP or EPC-CP MSGP stormwater personnel

- [1] Access the CAR database at <u>https://msgp-</u> car.lanl.gov/forms/frmservlet?config=msgp\_car.
  - [a] On the main screen, scroll down to the corrective action number to be edited.
  - [b] Click "Edit."
- [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 "Save" to save all changes to the information.

#### 5.9 Validation of Corrective Actions

#### **EPC-CP MSGP stormwater personnel**

- [1] Access the CAR database at <u>https://msgp-</u> <u>car.lanl.gov/forms/frmservlet?config=msgp\_car</u>.
- [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] <u>IF</u> not, <u>THEN</u> 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] <u>IF</u> 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, <u>THEN</u>
  - [a] Under "Status," select "Void."
  - [b] The "Void" designation allows MSGP stormwater personnel to manually exclude this information in the annual report.

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#### 5.10 Issues Management

EPC-CP MSGP stormwater personnel or DEPs use the IM tool as the institutional performance issues and tracking system for identified quality assurance (QA) affecting issues. A QA affecting issue includes, but is not limited to, the following conditions.

- Exceedance of a water quality standard.
- Exceedance of an effluent limitation (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 being 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] <u>IF</u> an issue needs to be entered into the IM tool, <u>THEN</u> send the following information to the EPC Division IMC for entry into the IM tool:
  - Organization responsible for the issue/problem;
  - A description of the nature of the condition identified and what needs to be done to address it;
  - Regulatory citation for the non-compliance;
  - Issues Responsible Manager (IRM);
  - Action, actionee, and due date for each issue; and
  - Whether the issue was identified internal or external to LANL.

#### 5.11 Notifications for New and Overdue Corrective Actions

- [1] When a new condition requiring corrective action is entered into the CAR database, the FOD, Ops Manager, DESH 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 will be sent during the corrective action process depending on the length of time it will take to close.
- [3] A notification will be sent out:

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- When a new corrective action is entered into the database (see Attachment 3); and
- Weekly notifications of outstanding (open) corrective actions (see Attachment 4).

Each notification contains a hyperlink 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 FOD, Facility, unique Corrective Action identification number assigned by the CAR database, the person identifying the condition, the date the issue was identified, the date corrective action was initiated, the projected completion date, and a color-coded count (corresponding to the Corrective Action deadlines in Section 5.2 of this procedure) of the number of days to take action and the number of days the issue has been open, and the issue/problem description.

These notifications serve to apprise recipients of the status of open conditions requiring corrective actions and to provide sufficient time for MSGP stormwater personnel to provide documentation to EPA at the 45-day deadline. This will assist the FOD, DESH Managers, Ops Managers, and the DEPs 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.

For EPC-CP MSGP stormwater personnel, the training method for this procedure is "self-study" (reading). DEPs shall achieve a satisfactory score on Training Course 53040, *MSGP Routine Facility Inspections OJT*. Other participating groups may require training documentation pursuant to local procedures.

Personnel performing this procedure will be familiar with the most current version of the following procedure:

• ENV-CP-QAPP-MSGP, Multi-Sector General Permit for Industrial Activities Program

# 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.

#### 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-2 of the MSGP).

**Note:** Exceedance of a numeric effluent limitation is a violation of the MSGP (see Part 4.1 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.

**Impaired water quality exceedance**—Exceedance of a New Mexico water quality standard. These standards are specified in the New Mexico Administrative Code, Title 20, Chapter 6, Part 4, *Standards for Interstate and Intrastate Surface Waters*.

**Note:** Industrial stormwater discharges must be controlled as necessary to meet applicable water quality standards within the State of New Mexico (see Part 2.2.1 of the MSGP).

#### 8.2 Acronyms

BMP	Best Management Practice
CA	Corrective Action
CAR	Corrective Action Report
EPA	Environmental Protection Agency

See LANL Acronym Master List.

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EPC-CP	Environmental Protection and Compliance-Compliance Programs	
DEP	Deployed Environmental Professional	
DESH	Deployed Environmental, Safety and Health	
ID	Identification	
IM	Issues Management	
IMC	Issues Management Coordinator	
IRM	Issues Responsible Manager	
IWD	Integrated Work Document	
FOD	Facility Operations Director	
FSR	Facility Service Request	
HEY	Heavy Equipment Yard	
LANL	Los Alamos National Laboratory	
MSGP	Multi-Sector General Permit	
Ν	No	
NPDES	National Pollutant Discharge Elimination System	
Ops	Operations	
Р	Procedure	
PD	Program Description	
QA	Quality Assurance	
QP	Quality Procedure	
SD	System Description	
STO	Science and Technology Operations	
SWPPP	Stormwater Pollution Prevention Plan	
40 CFR	Title 40 of the Code of Federal Regulations	
WMC	Waste Management Coordinator	
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.
- <u>Unites States Environmental Protection Agency (EPA) National Pollutant Discharge</u> <u>Elimination System (NPDES) Multi-Sector General Permit For Stormwater Discharges</u> <u>Associated With Industrial Activity (MSGP)</u>
- Los Alamos National Laboratory Storm Water BMP Manual

- PD100, DOE/NNSA Approved Los Alamos National Laboratory 10 CFR 857 Worker Safety and Health program Description
- <u>SD100, Integrated Safety Management System</u>
- <u>P101-18, Procedure for Pause/Stop Work</u>
- EPC-CP-QP-023, MSGP Routine Facility Inspections

## **10.0 ATTACHMENTS**

Attachment 1: Screenshot Example of CAR Database

- Attachment 2: Lists of Limited Values in the CAR Database
- Attachment 3: Example New Corrective Action Finding Notification
- Attachment 4: Example Weekly Notification of Outstanding Corrective Action Findings

Attachment 5: Example Outstanding Corrective Action Report

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## Attachment 1 – Screenshot Example of CAR Database

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## **Corrective Action Header tab**

DES MSGP CORREC	TIVE ACTION	NREPORT		ld. Number	: 1150	(Assigned by	( computer)
Name of Facility : TA-	-60-1 Heavy	Equipment Yar	d	List			
Date problem was ider	ntified : 05/	19/2017 09:00	Date o	f Notification	to EPC-CP :	05/19/2017	12:00
FOD Responsible for C	A (Name & (	Org): UI		Erickson An	drew W		
Describe Specific Eval	luation Loca	tion : Trench	n drain east o	of the high ba	ay that drains	to the oil w	ater separ
Inspector Z-Number :	123456	Doe, Jane			EPC-CP		
Person Identifying Condition Z-Number :	123456	Doe, Jane			EPC-CP		
I	Date Forma	at Must be ent	ered as MN		HH24:MI		
	Date Forma	at Must be ent	ered as MM	1/DD/YYYY	HH24:MI	Annual Re	port ID (s):
		at Must be ent	ered as MM	1/DD/YYYY	HH24:MI	Annual Rej	port ID (s):
Status: 1			tered as MM	1/DD/YYYY	HH24:MI	Annual Rej	port ID (s):
Status: 1	new correc		ered as MN	1/DD/YYYY	HH24:MI	Annual Rep	port ID (s):
Status: 1	new correc		tered as MN	I/DD/YYYY	HH24:MI	Annual Rep	port ID (s):
Status: 1	new correc	tive action ?		I/DD/YYYY rd Selection		10	port ID (s):

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## Attachment 1 – Screenshot Example of CAR Database (cont.)

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## **Corrective Action Details tab**

	for this review: If other, (describe here):
ontrol measures not properly operated or	
Briefly describe the nature of problem ide	entified: (e.g., Erosion problem identified during inspection).
	-60 HEY that drains to an oil/water separator was not draining during that was previously identified on 3/22/2017 (see CAR #1067), when 025.
How problem was identified:	If other, (describe here):
Other (describe) :	List During monitoring after a storm event
	to be taken to eliminate or further investigate the problem (e.g., neasures, analyses to be conducted, etc.) or if no modifications
l/water constant is required to close this	umentation of actual maintenance done on the trench drain and corrective action. Additional controls may need to be implemented all that is Substantially Identical? Yes/No : Y nd 025
	prrective action taken is appropriate for all related SIOs:
19/2017: Temporarily pumping water will	prrective action taken is appropriate for all related SIOs: prevent discharge from reaching the SIOs. 6/5/2017: Unclogging the ater separator will prevent unauthorized discharges such as oil.
19/2017: Temporarily pumping water will   ench drain and maintenance on the oil/wa	prevent discharge from reaching the SIOs. 6/5/2017: Unclogging the ter separator will prevent unauthorized discharges such as oil.
19/2017: Temporarily pumping water will pench drain and maintenance on the oil/wa 11. Did/will this corrective action require	prevent discharge from reaching the SIOs. 6/5/2017: Unclogging the ater separator will prevent unauthorized discharges such as oil. modification of your SWPPP ? Yes/No :
19/2017: Temporarily pumping water will p ench drain and maintenance on the oil/wa 11. Did/will this corrective action require 12. Date corrective action initiated (MM/	prevent discharge from reaching the SIOs. 6/5/2017: Unclogging the ater separator will prevent unauthorized discharges such as oil. modification of your SWPPP ? Yes/No : Y DD/YYYY HH24:MI): 05/19/2017 14:00 OR expected completion :
19/2017: Temporarily pumping water will p ench drain and maintenance on the oil/wa 11. Did/will this corrective action require 12. Date corrective action initiated (MM/ 13. Date corrective action completed (M	prevent discharge from reaching the SIOs. 6/5/2017: Unclogging the ater separator will prevent unauthorized discharges such as oil. modification of your SWPPP ? Yes/No : Y DD/YYYY HH24:MI): 05/19/2017 14:00 OR expected completion : M/DD/YYYY HH24:MI): 06/05/2017 16:00 completed within 14 days of discovery, describe any remaining

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### Attachment 1 – Screenshot Example of CAR Database (cont.)

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#### Full Text for Item 16: Description of Corrective Action Taken or to be Taken

On 05/19/2017, HEY personnel pumped water from the trench drain into storage tanks to prevent overflow and release. Sediment was also removed from the trench drain and placed into drums. An on-site supervisor submitted an FSR to unclog the line. Documentation of actual maintenance done on the trench drain and oil/water separator is required to close this corrective action. Additional controls may need to be implemented until maintenance is complete to ensure that oil is not discharged into the drainage channel north of the site. In addition, the SWPPP must be modified to identify the preventative maintenance schedule and include the procedure for conducting it. On 05/30/2017, the SWPPP was modified to include a quarterly maintenance schedule and a procedure for routine maintenance on the oil/water separator. On 06/05/2017, MSS jet-routed the drain to remove the clog and a subcontractor performed maintenance on the oil/water separator.

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## Attachment 2 – Lists of Limited Values in the CAR Database

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## Name of Facility (Item 1 on Attachment 1 Screenshot)

Find TA-%
Msgp_Facility_Desc
TA-14-23 OBOD
TA-15-185 PHERMEX
TA-15-313 Machine Shop
TA-16-0388 Burning Ground
TA-16-0399 Burning Ground
TA-22-52 Machine Shop
TA-3-22 Power & Steam Plant
TA-3-30 Warehouse
TA-3-32 Metal Shop
TA-3-34 Metal Shop
TA-3-38 Carpenter Shop
TA-3-38 Metals Fab. Shop
TA-3-39 & 102 Metal Shop
TA-3-66 Sigma Facility
TA-33-113 Machine Shop
TA-33-39 Machine Shop
TA-35-125 Machine Shop
TA-35-2 Machine Shop
TA-36-8 Minie
TA-39-57 OBOD
TA-39-6 OBOD
TA-46-31 Machine Shop
TA-46-77 Machine Shop
TA-48-8 Machine Shop
TA-50-37 WCRRF
TA-50-54 Metal Shop
TA-50-69 WCRRF
TA-53-16 Machine Shop
TA-53-18 Machine Shop
TA-53-2 Machine Shop
TA-53-22 Machine Shop
TA-53-26 Machine Shop
TA-53-39 Shop and Storage Building
TA-54 Area G
TA-54 Area L
TA-54 Maintenance Facility W
TA-54 RANT
TA-55 Plutonium Facility
TA-55-314 Warehouse
TA-60 Asphalt Batch Plant
TA-60 MRF
TA-60 Roads and Grounds
TA-60-1 Heavy Equipment Yard
TA-60-2 Warehouse
TA-63 Transuranic Waste Facility
TA-9-28 Heavy Equipment Maintenance Operations Facility
Eind QK Cancel

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## Attachment 2 – Lists of Limited Values in the CAR Database (cont.)

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Finding Description/Condition Triggering Need for Review (Item 11 on Attachment 1 Screenshot)

Findings been been been been been been been bee	×
Find <mark>%</mark>	
Finding_Desc	
Unauthorized release or discharge	
Numeric effluent limitation exceedance	
Control measures inadequate to meet non-numeric effluent limitations	2
Control measures not properly operated or maintained	
Change in facility operations necessitated change in control measures	
Average benchmark value exceedance	
Other (describe) :	
Impaired water quality exceedance	
	-
Eind <u>OK</u> Cancel	

Inspection Type/How Problem was Identified (Item 14 on Attachment 1 Screenshot)

How was problem identified : December 2000000000000000000000000000000000000
Find %
Inspection_Type_Desc
Quarterly visual assessment
Routine facility inspection
Benchmark monitoring
Impaired waters monitoring
Effluent limitation guidelines monitoring
Other (describe) :
<u>Find</u> <u>QK</u> <u>Cancel</u>

## Attachment 3 – Example New Corrective Action Finding Notification

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From: MSGPCorrectiveActionDB@esp-esh-as01.lanl.gov [mailto:MSGPCorrectiveActionDB@esp-esh-as01.lanl.gov] Sent: Friday, January 19, 2018 10:00 PM

To: Cc:

Subject: New Corrective Action finding relative to the NPDES MSGP Program

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 2 P.M.), the initiation must begin no later than the following work day.

Documentation of newly identified conditions requiring corrective action must occur within 24 hours of discovery, evidenced by entry into the CAR database.

At TA-50-37 WCRRF on 01/17/18, a condition requiring a corrective action was observed and a corrective action report was generated per the 2015 Multi-Sector General Permit requirements for stormwater controls at industrial sites. The condition(s) requiring a corrective action(s) is/are listed below.

CA#: 1296 located at TA-50-37 WCRRF.

Person Identifying Condition: DOE JANE

Description of finding: Unauthorized release or discharge

Condition requiring corrective action: Forklift was leaking hydraulic fluid

Description of the corrective action taken or to be taken to eliminate the condition or further investigation: On 1/17/2018 prior to the start of work the operator noticed the forklift was leading hydraulic fluid from the line to the mast. Approximately 4 to 6 oz leaked onto the asphalt. The Operation Center was notified and the WMC and ENV. The Nuc Operators placed spill pads under the leak. FSR#182723 was entered to repair forklift and apply microblaze. At 1702 MSS personnel applied micro blaze to the spill. On 1/18/2018 the WMC collected all spill pads and managed them accordingly.

Status: The corrective action was initiated on 01/17/2018 and was completed on 01/17/2018.

Click HERE to access the list of MSGP corrective action(s) not yet completed for EWMO.

Click HERE to access the list of all MSGP corrective action(s) not yet completed.

The ESH Deployed Environmental Professional (DEP) assigned to your organization/area is (are) Jane Doe.

The color legend on the linked reports corresponds to the following schedule for corrective action completion as required by the 2015 MSGP:

#### You must complete the corrective action within 14 calendar days of discovery.

If completion of final corrective actions within 14 days is not feasible, the reason(s) must be documented and a description of steps required and formal schedule for completion, which must be done as soon as practicable after the 14-day timeframe, but not longer than 45 days after discovery. The reasons, steps and schedule for completion must be entered into the CAR database.

If the completion of corrective action will exceed the 45-day timeframe, you make take the <u>minimum</u> additional time necessary, provided that you notify Region 6 of the Environmental Protection Agency:

- 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 nust 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 U.S. Environmental Protection Agency 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

Page 1 of 1

From: MSGPCorrectiveActionDB@esp-esh-as01.lanl.gov [mailto:MSGPCorrectiveActionDB@esp-esh-as01.lanl.gov] Sent: Monday, January 01, 2018 10:00 PM

To: Cc:

Subject: Weekly Notification of Outstanding NPDES MSGP Corrective Action finding(s)

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 2 P.M.), the initiation must begin no later than the following work day.

Documentation of newly identified conditions requiring corrective action must occur within 24 hours of discovery, evidenced by entry into the CAR database.

At TA-3-38 Carpenter Shop , 1 total MSGP stormwater corrective action(s) has (have) not been completed.

At TA-3-38 Metals Fab. Shop, 1 total MSGP stormwater corrective action(s) has (have) not been completed.

At TA-60-1 Heavy Equipment Yard, 7 total MSGP stormwater corrective action(s) has (have) not been completed.

At TA-60-2 Warehouse , 4 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 all MSGP corrective action(s) not yet completed.

The ESH Deployed Environmental Professional (DEP) assigned to your organization/area is (are) Jane Doe : John Doe.

The color legend on the linked reports corresponds to the following schedule for corrective action completion as required by the 2015 MSGP:

You must complete the corrective action within 14 calendar days of discovery.

If completion of final corrective actions within 14 days is not feasible, the reason(s) must be documented and a description of steps required and formal schedule for completion, which must be done as soon as practicable after the 14-day timeframe, but not longer than 45 days after discovery. The reasons, steps and schedule for completion must be entered into the CAR database.

If the completion of corrective action will exceed the 45-day timeframe, you make take the <u>minimum</u> additional time necessary, provided that you notify Region 6 of the Environmental Protection Agency:

- 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 U.S. Environmental Protection Agency by EPC-CP personnel prior to day 45 for final corrective actions not completed or estimated to be completed within 45 days of discovery.

The responsible individual must ensure compliance with the proposed completion schedule.

These intervals are not considered grace periods, but are defined schedules to ensure the conditions requiring corrective action do not persist indefinitely.

Where corrective actions result in changes to controls or any procedures documented in the facility's Storm Water Pollution Prevention Plan (SWPPP), the DEP must modify the SWPPP accordingly within 14 calendar days of completing corrective action work.

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## Attachment 5 – Example Outstanding Corrective Action Report

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	<b><b>Ein</b>side</b>											
								eral Permit eport Findir				
				Final					of 02/01/2	2018)		
FOD	RAD	MSGP Facility	CA#	Person Identifying Condition	Date Problem Identified	Corrective Action Initiated Date	Days to Take Action	Projected Completion Date	Projected Days until Completion	(since	EPA Notified of Intent to Exceed 45 Days	Problem Description
UI	DOE JOHN	TA-3-38 Carpenter Shop	1298	DOE JANE	01/31/18		!	02/02/18	1	1		Tarp was totally torn off of the stack of metal posts at the southwest corner of the storage yard.
	DOE JOHN	TA-3-38 Metals Fab. Shop	1299	DOE JANE	01/31/18		!	02/02/18	1	1		A pile of gravel (from a torn gravel bag) is directly east of the trench drain.
Total	Total Findings: 2											
	Legend         Image: State in the stat											
Between 15 and 34 days of discovery						lays of disco						

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

EPC-CP-QP-2105		Revision: <b>1</b>		Los Alamos	
Effective Date: 09/08/2021		Next Review Date: 09/08/2024		NATIONAL LABORATORY	
Environment, Safety, Health, Quality, Safeguards, and Security Directorate Environmental Protection and Compliance – Compliance Programs Group Quality Procedure					
	MSGP St	ormwate	er Visual Asses	ssments	
Hazard Grading: Usage Level:	Low		High/Complex	ns:	
Status:		Major Revisio			
	Review w/No	Changes	Other:		
Safety Basis:	🖾 N/A 🛛	Jusq	USI Number:		
	Do	cument Autho	r/Subject Matter Exper	t:	
Name:		Organization:	Signature:	Date:	
Holly L. Wheeler		EPC-CP	Signature on File	08-30-21	
	Derivative (	Classifier: 🔀	Unclassified or 🗌		
Name:		Organization:	Signature:	Date:	
Steven E. Wolfel		EPC-CP	Signature on File	08-31-21	
		Approv	val Signatures:		
EPC-CP Reviewer:		Organization:	Signature:	Date:	
Alethea Banar		EPC-CP	Signature on File	08-31-21	
EPC-CP RLM:		Organization:	Signature:	Date:	
Terrill W. Lemke, Team Leader		EPC-CP	Signature on File	09-07-21	
EPC-CP RLM:		Organization:	Signature:	Date:	
Taunia J. Sandquist	, Group Leader	EPC-CP	Signature on File	09-08-21	
This copy is uncontrolled. Users are responsible for ensuring they work to the latest approved version. To document a required read, Login to <u>UTrain</u> , and go to the Advanced Search.					

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#### **REVISION HISTORY**

Document Number and Revision	Effective Date	Effective Date
ENV-RCRA-QP-064, R0	7/09	New document MSGP Storm Water Visual Inspections.
ENV-RCRA -QP-064, R1	3/10	Clarifications and added attachments.
ENV-RCRA -QP-064, R2	2/12	Biennial review/revision
EPC-CP-QP-064, R0	10/04/2017	This document replaces ENV-RCRA-QP-064 R2. Converted into new format, and new organization name, clarified steps, updated attachments.
EPC-CP-QP-064, R1	10/09/2018	Removed requirement to conduct visual assessment on filtered samples. Updated form to match text.
EPC-CP-QP-2105, R0	05/12/20	Supersedes EPC-CP-QP-064, R1. Reformat to new EPC-CP template. Re-number procedure and forms to new EPC-CP procedure numbering system.
EPC-CP-QP-2105, R1	09/08/2021	This document supersedes EPC-CP-QP-2105, R0. Updated LANL logo, changed "memorandum" to "cover sheet," changed "modified sampling quarters" to "MSGP monitoring quarters," "best management practice" to "stormwater control measure," and updated facility types and permit section reference to match new permit.

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#### 1.0 INTRODUCTION

Los Alamos National Laboratory (LANL) through Environmental Protection and Compliance – Compliance Programs (EPC-CP) conducts stormwater monitoring activities required pursuant to the National Pollutant Discharge Elimination System (NPDES), Multi-Sector General Permit (MSGP). The MSGP requires LANL to monitor stormwater runoff from industrial sites relative to potential pollutants.

#### 1.1 Purpose

This procedure describes the process for conducting visual assessments of stormwater from permitted outfall locations where LANL conducts stormwater monitoring activities for compliance under the MSGP.

#### 1.2 Scope

Requirements set forth in this document apply to active LANL industrial facilities covered by the MSGP. These facilities include, a warehouse, several metal fabrication areas/shops, a heavy equipment yard, an asphalt batch plant, roads and grounds, and a material recycling facility. Inspection waivers may be granted by EPC-CP for adverse weather conditions and unstaffed or inactive sites.

At least once each MSGP monitoring quarter, an unfiltered stormwater sample is collected from each discharge point covered by the MSGP and identified in the site-specific Stormwater Pollution Prevention Plan (SWPPP). The sample must be visually inspected for water quality characteristics. Stormwater samples are collected with an automated sampler, single-stage sampler, or by taking a grab sample. Visual assessments are **not** performed on filtered stormwater.

Visual assessments conducted under this procedure are documented using the Maintenance Connection Express<sup>™</sup> (MC Express) web application on a tablet or notebook style computer. In the event of electronic hardware or web application failure, personnel may use a printed hard copy to document the work.

## 1.3 Applicability

This procedure applies to the EPC-CP technical staff and subcontractor personnel (as applicable) who conduct stormwater visual assessments during or after measurable storm events at MSGP outfalls.

A measurable storm event is identified in Part 4.1.3 of the MSGP as one that results in an actual discharge from the site that follows the preceding measurable storm event by at least 72 hours (three days).

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#### 2.0 PRECAUTIONS AND LIMITATIONS

#### 2.1 Precautions

The hazard level for the activities described in this procedure is <u>LOW</u>, therefore an Integrated Work Document (IWD) Part I is not required. If required by a Facility Operations Division (FOD), an IWD Part II (2101 Form) will address any site-specific requirements and training for the FOD.

Personnel will wear appropriate clothing (e.g., boots, long pants, etc.,) to perform work in the field.

Work may be discontinued during periods or conditions that make sites dangerous for worker safety or prevent personnel from safely accessing sites (e.g., weather-related events such as flash floods, flooding, lightning, wildfires, hail, icy roads, deep snow, or LANL operations such as firing shots or open burns).

If conditions prevent fieldwork, document these conditions on the work order. Multiple attempts can be documented on the original form. If the target date cannot be met, field personnel will contact the Program Lead no less than 24 hours before the target date for guidance.

#### 2.2 Limitations

In MC Express, document responses to each question on a work order by clicking the expand arrow located on the right side of the task line and changing the "Complete" or "Failed" line to "Yes." When using a hard copy form, mark the appropriate check box.

Throughout this process, field personnel will document comments and notations in the "Reading" field of the associated task line. Additional comments not documented in a "Reading" field can be entered in the "Comments" field of the same task line. If field personnel need more space, additional comments can be entered in the "Labor Report Update" field (see Section 4.3) when the work order is updated to "Complete" status. When using a hard copy form, document comments on the corresponding task line. If additional space is needed, comments can be entered in the "Labor Report" section at the bottom of the form.

Some terminology varies between the MC Express software and the Maintenance Connection (MC) desktop software.

- The "Reading" field in MC Express is the same field as "Reading Final" in MC desktop and "Meas." on a hard copy (printed) work order.
- The "Complete" option in MC Express is the same as a "Yes" answer. The "Failed" option in MC Express is the same as a "No" answer. MC desktop and hard copy (printed) work orders use "Yes" and "No" terminology.

## 3.0 PREREQUISITE ACTIONS

#### 3.1 Planning and Coordination

1. Schedule work to be completed by the target date appearing on the work order(s) or as requested by the MSGP Program Lead if a work order is not issued.

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- 2. As specified in the IWD Part II (if applicable), inform (e.g., by e-mail) facility contacts and/or the Deployed Environmental Professional (DEP) of the schedule for work and locations up to a week (preferred) before but no later than the day before (for minor changes) so work is added to the appropriate plan of the day.
- 3. Gather the required equipment (see Section 3.2) for the work to be done.
- 4. Using the Safari or Chrome web browser on a tablet or notebook style computer, log into the MC Express application (http://express.maintenanceconnection.com) and confirm that the work order list displayed matches your sites. If the work order lists do not match, contact EPC-CP Data Management personnel for clarification.
- 5. In MC Express, click on the appropriate work order number to open the work order. The work order will open in the display to the Work Order Summary page.
- 6. Click on the "Tasks" bar to navigate to the work order Tasks page. See MC Express screen shot examples in Attachment 1.
- 7. Always log out of MC Express when you have finished work OR work is interrupted.

#### 3.2 Special Tools, Equipment, Parts, and Supplies

Ensure the following equipment is available in the field vehicle:

- Safety glasses
- Nitrile gloves
- Sturdy hiking boots or steel toed shoes with soles that grip
- Other facility specific personal protective equipment as required by the FOD
- Cell phone (only government cell phones are allowed in secure areas) (See <a href="https://int.lanl.gov/policy/documents/P217.pdf">https://int.lanl.gov/policy/documents/P217.pdf</a> for requirements for using portable electronic devices on Laboratory property.)
- Current copy of this procedure
- Current copy of the IWD(s) Part II (as needed)
- Site map(s) (as needed)
- Current electronic work order or paper inspection form
- EPC-CP MSGP Sampling and Analysis Plan (SAP) most recent revision for the current monitoring year OR program specific monitoring plan
- Government issued electronic tablet with Safari web browser and Blackberry UEM<sup>™</sup> app. (See <u>https://int.lanl.gov/policy/documents/P217.pdf</u> 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 R1 Form 1, *MSGP Visual Assessment*, in MC Express. See Attachment 2 for an example of the form in hard copy format.

**NOTE:** Each item number listed in red below corresponds to a red numbered box on both screenshots and hard copy format.

#### 4.1 Documenting Sample Information

- [1] Take the sample bottle with water out of the automated sampler or single stage jar off the ground or fill a clear sample bottle with a grab sample and wipe off exterior.
  - [a] Grab samples are collected during daylight hours in a wide-mouth clear glass or plastic container within 30 minutes of discharge from a storm event.
- [2] **ITEM 1**: Document the monitoring period by entering Jan-Mar, Apr-Jun, Jul-Sep, or Oct-Dec.
  - [a] <u>IF</u> 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,

<u>THEN</u> document monitoring period on the inspection to correspond to the period in which the rain event took place.

- [3] **ITEM 2**: Check the date and time stormwater discharge began and document by entering the date in the following formats: MM/DD/YY or MM-DD-YY. Time must be entered in 24-hour format.
  - [a] <u>IF</u> the discharge date/time is not available (e.g., precipitation report) when the visual is performed in the field,

<u>THEN</u> leave this Task Line incomplete and complete when the information is available.

- [4] **ITEM 3**: Check the date and time the sample was collected and document by entering the date in the following formats: MM/DD/YY or MM-DD-YY. Time must be entered in 24-hour format.
  - [a] <u>IF</u> the collection date/time is not available (e.g., precipitation report) when the visual is performed in the field,

<u>THEN</u> leave this Task Line incomplete and complete when the information is available.

- [5] **ITEM 4**: Check the date and time stormwater was visually assessed and document by entering the date in the following formats: MM/DD/YY or MM-DD-YY. Time must be entered in 24-hour format.
- [6] **ITEM 5**: Describe the nature of the discharge (e.g., rain, snowmelt, hail) and the TOTAL amount of precipitation in inches from the event.
  - [a] <u>IF</u> the total amount of precipitation is not available (e.g., precipitation report) when the visual is performed in the field,

<u>THEN</u> leave this Task Line incomplete and complete when the information is available.

- [7] **ITEM 6**: Check that the sample was collected in the first 30 minutes of discharge and document.
  - [a] <u>IF</u> it is not possible to collect the sample within the first 30 minutes of discharge,
     <u>THEN</u> the sample must be collected as soon as practicable after the first 30 minutes.
  - [b] The field inspector will document the reason a sample could not be collected within the first 30 minutes (e.g., lightning hazard, flooding).

## 4.2 Assessing Parameters

While conducting the visual assessment, personnel will attempt to relate any evidence of stormwater pollution that is observed in the sample to a pollutant source on the site. A cleanup of the site can be conducted if the pollutant source is known and well defined. Refer to EPC-CP-QP-2109, *MSGP Corrective Actions,* for specific steps to document, track, and report conditions of potential stormwater pollution.

- [1] **ITEM 7**: Observe the color of the discharge in the sample container. Document by describing the color.
- [2] **ITEM 8**: Observe any odors detected from the sample. Document by describing the odor (e.g., musty, sewage, sulfur, sour, solvents, petroleum/gas).
- [3] **ITEM 9**: Observe the clarity of the discharge. Document by describing the clarity (e.g., slightly cloudy, cloudy, opaque).
  - **NOTE 1:** Clarity is described as the depth in which you can look into or through water. For example, an individual can see through a clear glass of clean water in daylight. Generally, the clarity of the water is a good visual indicator of the purity of water. If the water is poor in clarity there is most likely suspended solids throughout the water.
- [4] **ITEM 10**: Observe any floating solids in the discharge. Document by describing the floating solids.

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- **NOTE 2**: Careful examination will determine whether the solids are raw materials (e.g., product used to fabricate something, or ingredients used in a formulation) or waste materials (e.g., shavings, woodchips and sawdust, trash).
- [5] **ITEM 11**: Observe any settled solids in the sample. Document by describing the settled solids (e.g., sediment, vegetation, fine, course).
  - **NOTE 3:** Settled solids may be an indicator of unstable ground cover combined with a high-intensity stormwater runoff event.
- [6] **ITEM 12**: Observe any suspended solids in the sample. Document by describing the suspended solids (e.g., vegetation, ash, sediment, fine, course).
  - **NOTE 4:** Most often suspended solids include fine sediment. This may be an indication of an unstable channel with eroding banks. Some water may appear to be colored because of relatively fine particulate material in suspension such as sediment.
- [7] **ITEM 13**: Check to see whether the sample is free of foam. Gently shake the sample container. Document by describing any bubbles in or on the surface of the water and the color of the foam.
  - [a] <u>IF</u> it is determined that foam is caused by a pollutant, <u>THEN</u> complete the visual assessment and contact the EPC-CP MSGP Program Lead <u>immediately</u> following completion of the visual assessment.
  - [b] Follow-up action is required within 24 hours (see EPC-CP-QP-2109).
- [8] **ITEM 14**: Check to see whether the sample is devoid of any oil sheen. Document by describing the thickness and consistency (e.g., flecks, globs).
  - [a] <u>IF</u> an oil sheen is present, <u>THEN</u> contact the EPC-CP MSGP Program Lead <u>immediately</u> following completion of the visual assessment.
  - [b] Document in the Labor Report (ITEM 17) the source of the oil sheen, if existing stormwater control measures (SCMs) are effective in mitigation of potential pollutants, and if a new SCM needs to be installed.
  - [c] Follow-up action is required within 24 hours (see EPC-CP-QP-2109).
- [9] **ITEM 15**: Check to see whether the discharge is free of any other indicators of stormwater pollution not described in any other task line above.
- [10] <u>IF</u> there are any potential sources of pollutants observed on site, <u>THEN</u> 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 are needed to address the observed contaminant.
- [11] Contact the FOD, DEP, and EPC-CP MSGP representative to inform them of the situation.

**NOTE 5:** Refer to EPC-CP-QP-2109, *MSGP Corrective Actions,* for specific steps to document, track, and report conditions of potential stormwater pollution.

[12] After all task lines have been completed, make sure you have clicked the "Save" bar at the bottom of the page.

#### 4.3 Completing the Visual Assessment Form

- [1] Ensure the inspection form has been filled out completely including information not available during the field inspection (e.g., date/time of discharge, date/time of sample collection, total precipitation amount).
- [2] Click the "Back" arrow button in the upper left-hand corner to exit the work order Tasks page and return to the Work Order Summary page.
- [3] Click the checkered flag A in the upper right corner of the Work Order Summary page to open the Work Order Status Update page. MC Express auto-populates the date and time fields.

#### CAUTION

MC Express automatically changes the work order status to "Closed."

- [4] **ITEM 16**: Click on the expand arrow located on the right side of the "New Status" field and select "Completed" from the available dropdown menu.
  - [a] Ensure the auto-populated date and time is the date and time that the **work** was completed and *not* the date/time the form was filled out.
  - [b] <u>IF</u> work is performed over multiple days, <u>THEN</u> 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,

<u>THEN</u> write the date and time the work was completed.

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- [5] **ITEM 17**: The field personnel must type or write his/her name in the "Labor Report Update" field.
- [6] Any additional notes, observations, or site conditions not documented in a task line "Reading" or "Comments" field can be documented in the "Labor Report Update" field.
- [7] Scroll down the page to the "Signature" bar and click the expand arrow on the left side of the bar to open the "Signature" field.
  - [a] **ITEM 18**: Capture an electronic signature by drawing with a finger on the tablet screen. The Lead Inspector is certifying that the information submitted is "true, accurate, and complete" by electronically signing the work order.
    - **NOTE:** The mouse must be used to sign electronically when using MC Express on a desktop screen (not a tablet).
  - [b] If using a hard copy form, the field personnel will sign his/her name and the date of when the form was signed.
  - [c] By signing either electronically or on hard copy, the field personnel is certifying that the information submitted is "true, accurate, and complete."
- [8] Click on the "Save" bar at the bottom of the page to close the "Signature" field.

## 4.4 Completing the Certification Statement

The EPC-CP MSGP Program Lead or designee will send completed visual assessment forms to the DEPs at the end of each quarter that will contain a certification statement in the cover sheet. The duly authorized signatory may sign and date this certification statement rather than the certification line associated with each attached form. However, the cover sheet and associated completed forms must remain together.

## 5.0 TRAINING

All EPC-CP personnel that execute the activities specified in this procedure must meet the minimum qualification and training requirements for their position as identified EPC-CP-PIP-2101, *NPDES Multi-Sector General Permit Program Implementation Plan*. This will include "self-study" (required reading), recurring annually, for this procedure as assigned and documented in the LANL UTrain system. Other participating LANL groups may require training to local procedures and document completion of training.

Contract personnel that execute the activities specified in this procedure will be qualified and trained as required by the Exhibit D and Exhibit F. In addition, contract personnel are required to complete "self-study" (required reading) of this procedure.

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#### 6.0 RECORDS

MSGP Visual Assessment forms are signed and certified by individual LANL facilities. These completed forms are maintained in the facility's SWPPP and managed by the facility's document management system. The MSGP team may retain a copy for reference purposes.

Below are records generated as a result of implementing this procedure that are identified by title and type.

Record Title	QA Record	Non-QA Record
EPC-CP-QP-2105 R1 Form-1, MSGP Visual Assessment	$\square$	

#### 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 ther site that follows the preceding measurable storm event by at least 72 hours (3 days).

**Odor** – The property or quality of waters that affects or stimulates the sense of smell. Examples of odors that may be present are burnt oil, petroleum hydrocarbon, sewage, diesel, sulfuric, or detergent odors.

**Oil sheen** – The presence of rainbow-like colors glistening on the surface of a liquid. The color of oil sheen will vary dependent on thickness and consistency.

**Settled solids** – Settled particulate material i.e., heavier than water. Examples include sand, gravel, metal turnings, and glass.

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**Suspended solids** – Particulate materials that are floating between the bottom of the sample and the surface of the water.

**Unstaffed and Inactive Sites** – A facility maintaining certification within the SWPPP that it is inactive and unstaffed and visual examinations are not required.

#### 7.2 Acronyms

See LANL Acronym Master List.

DEP	Deployed Environmental Professional	
EPC-CP	Environmental Protection and Compliance – Compliance Programs	
FOD	Facility Operations Division	
IWD	Integrated Work Document	
LANL	Los Alamos National Laboratory	
MC	Maintenance Connection	
MC Express	Maintenance Connection MC Express web application	
MSGP	Multi-Sector General Permit	
NPDES	National Pollutant Discharge Elimination System	
SAP	Sampling and Analysis Plan	
SCM	Stormwater Control Measure	
SWPPP	Stormwater Pollution Prevention Plan	

#### 8.0 **REFERENCES**

EPC-CP-QP-2109, MSGP Corrective Actions

EPC-CP-PIP-2101, NPDES Multi-Sector General Permit Program Implementation Plan

#### 9.0 ATTACHMENTS

Attachment 1: Screenshot Examples of EPC-CP-QP-2105 R1 Form 1, MSGP Visual Assessment in MC Express

Attachment 2: EPC-CP-QP-2105 R1 Form 1, MSGP Visual Assessment Hard Copy Example

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## Attachment 1: Screenshot Examples of EPC-CP-QP-2105 R1 Form 1 MSGP Visual Assessment in MC Express

(Page 1 of 4)

Work Order Summary Page (Section 3.1, Steps 5 and 6)

<b>(</b> -	MC Expres	s 🔳
WORK ORDER	R: MSGP-4344	^ ⊙
	ASGP00901] MSGP00901 A-3-22 Power & Steam Plant equested	
EXAMPLE	MSGP Visual Assessment	
Task	s	15
Assig	gnments	0
Labo	or	0
Parts	5	0
Othe	er Costs	0
J Attachments		0
Asset History		121
More Wo	rk Order Detail	•
0	Refresh 🗰	List

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## Attachment 1: Screenshot Examples of EPC-CP-QP-2105 R1 Form 1 MSGP Visual Assessment in MC Express (cont.)

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Work Order Tasks Page – Documenting Sample Information (Section 4.1, Steps 2-7)

<b>(</b>	MC Express	
WORK ORDER: MSGP-4344 Tasks		
Tasks 🕥		a
	es to associated SIOs as defined in the SWPPP, where applicable.	
Sample information		
30 1 Document the monitoring	períod.	+
40 2 Document the Date/Time	Discharge began in the "Reading" field of this line (using mm/dd/yy hh:mm form	nat). 🛨
50 3 Document the Date/time	sample collected in the "Reading" field of this line (using mm/dd/yy hh:mm for	mat).
60 4 Document the Date/time	sample visually assessed in the "Reading" field of this line (using mm/dd/yy hh:	mm format).
70 5 Document the nature of c	discharge (e.g., rain, snowmelt). Document the TOTAL amount (in) in the "Readir	ng° field of this line.
80 6 Sample collected in first	30 minutes of discharge? If "Failed" or unknown, provide a reason.	*
C) Re	efresh 🛄 List	
	MC Express	©
	Edit Took 30 Document the monitoring period. Reading	9
	July-Sept	(

+	MC Express	
WORK ORDE	R: MSGP-4344	•
	30 Document the monitoring period.	
Reading		
July-Sept		
Initials		
$\sim$		
Failed?	-	
No		0
Not Appl	icable?	
No		0
Complete	•7	
Yes		0
Commen	ts	
Commen	ts	
5 Ca	ncel 🖌 Save 🔿	Save/Next

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## Attachment 1: Screenshot Examples of EPC-CP-QP-2105 R1 Form 1 MSGP Visual Assessment in MC Express (cont.)

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Work Order Tasks Page – Assessing Parameters (Section 4.2, Steps 1-9)

E	MC Express		
WORK ORDER: MSGP-4344 Tasks		P	$\odot$
Parameters			
110 Is sample colorless? If "Failed", describe.			*
120 Is sample oderless? If "Failed", provide des	scription (e.g. musty, sewage, sulfur, sour, solvent, petro	oleum/gas)	+
130 Is sample clear? If "Failed", provide descri	ption (e.g., slightly cloudy, cloudy, opaque).		+
140 10 Is sample free of floating solids? If "Failed	", describe if raw or waste material(s) in the comments o	of this line.	+
150 15 sample free of settled solids? If "Failed"	', provide description (e.g., fine, course).		+
160 12 Is sample free of suspended solids? If "Fail	led", provide description (e.g., fine, course).		+
170 13 Is sample foamless after gently shaking? If	f "Failed" describe foam color and location (e.g.,'on the s	urface' or 'in the sample').	+
180 Is sample devoid of an oil sheen? If "Failed	d", describe color and thickness (e.g. flecks, globs).		+
190 15 Is sample free of other obvious indicators	of pollution? If "Failed", describe.		+
1 Refresh		List	

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## Attachment 1: Screenshot Examples of EPC-CP-QP-2105 R1 Form 1 MSGP Visual Assessment in MC Express (cont.)

(Page 4 of 4)

Work Order Status Update Page – Completing the Form (Section 4.3, Steps 4-6)

4	MC Express	
WORK ORDER: M	SGP-4344	
Issued	/ Completed	
New Status	16	
Completed		0
Date		
6/19/2018 10:	48 AM	
Percent Com	plete 100%	
6		0
Labor Report	Update 17	
Select Comme	nts to Add	0
Jane Admin		-
5 0	ancel	Save

Work Order Status Update Page (Section 4.3, Step 7)

4	-	MC Express	
WORK OR Status Upda	DER: MSGP-434	14	
O Sign	nature 18	3	
(Remov	ve)	2	
N	rome Ad	lmin-	
18	runne fac	<b>v</b>	
5	Cancel		Save

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## Attachment 2: EPC-CP-QP-2105 R1 Form 1, MSGP Visual Assessment Hard Copy Example

(Page 1 of 2)

	os Ala	mos National Laboratory	Work Order MSGP-4: MSGP Monitoring Ste Printed 6/19/2018 - 10:55 AM (Duplicate C
٨	lainten	ance Details	
1	Request Procedu Last PM	Assessment (EPC-CP- QP-2105 R1 Form 1	MSGP Program Ta RG121.9 TA-60-2 Warehoue Monitored Outfall (026)
ľ	LUGUTIM		Contrast Adams Inc.
1	Reason:	EXAMPLE MSGP Visual Assessment	Contact: Admin, Jane Phone: 123-4567
04	Special	Instructions:	
T	asks		
	# The res	Description ult of this VA applies to associated SIOs as defined in the SWPPP, wh	Meas. No N/A Yes
1		Information Document the monitoring Period	
	40	Document the Date/Time Discharge began in the "Reading" field of this in mm/dd/yy hh:mm format).	
]	50	Document the Date/time sample collected in the "Reading" field of this lin mm/dd/yy hh:mm format).	e (using
]	60	Document the Date/time sample visually assessed in the "Reading" field of (using mm/dd/yy hh:mm format).	
]	70	Document the nature of discharge (e.g., rain, snowmelt). Document the T (in) in the "Reading" field of this line.	
	80	Sample collected in first 30 minutes of discharge? If "Failed" or unknown, reason.	provide a
	Parame	iters	
1	110	Is sample colorless? If "Failed", describe. Is sample oderless? If "Failed", provide description (e.g. musty, sewage, s	
]	120	solvent, petroleum/gas)	
	130	Is sample clear? If "Failed", provide description (e.g., slightly cloudy, cloud	dy, opaque). 🔽 🗖 🔽
,	140	Is sample free of floating solids? If "Failed", describe if raw or waste mate comments of this line.	rial(s) in the
	150	Is sample free of settled solids? If "Failed", provide description (e.g., fine,	
2	160	Is sample free of suspended solids? If "Falled", provide description (e.g., inc.	
	100	Is sample foamless after gently shaking? If "Failed" describe foam color a	
5	170	(e.g., 'on the surface' or 'in the sample').	
1	1.00	Is sample devoid of an oil sheen? If "Failed", describe color and thickness	
	180	globs).	<u> </u>
5	190	Is sample free of other obvious indicators of pollution? If "Failed", describe	
L	abor R		
-1		ted: 6/19/2018 10:48:00 AM	
	Report:	Jane Admin	
	N		
3		VIML 600000- 6/19/2018 Stonature / Name Date St	Signature / Name Date

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# Attachment 2: EPC-CP-QP-2105 R1 Form 1, MSGP Visual Assessment Hard Copy Example (cont.) (Page 2 of 2)

	CERTIFICATION STATEMENT	
a system designed to assure that qualified p the person or persons who manage the syst is, to the best of my knowledge and belief.	sument and all attachments were prepared under personnel properly gathered and evaluated the in em, or those persons directly responsible for gat true, accurate, and complete. I am aware that the he and imprisonment for knowing violations".	formation submitted. Based on my inquiry of hering information, the information submitted
(Signatory must meet definition in Section	on B.11.A, eg. FOD, Ops Mgr, EPC Group or	Team Leader)
Print name and title:	- Chi	
Signature:	Date:	
	4	EPC-CP-QP-2105 R1 Form 1
0	810 - C	
	/	

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

EPC-CP-TP-2103		Revision: <b>0</b>		Los Alamos	
Effective Date: 02/24/2020		Next Review I	Date: 02/24/2023	NATIONAL LABORATORY EST. 1943	
Environmen	Environment, Safety, Health, Quality, Safeguards, and Security Directorate				
Environmen	t Protection	and Complia	nce – Compliance F	Programs Group	
Technical Pro	ocedure				
Ins	pecting IS		water Runoff Sa ing Samples	amplers and	
Hazard Grading:	Low	🔀 Moderate	High/Complex		
Usage Level:	🔀 Reference	UET	Mixed: UET Sections:		
Status:	New	Major Revision	Minor Revision		
	Review w/Nc	Changes	Other: <u>New EPC-CP form</u>	nat and numbering system	
Safety Basis: X/A USQ		_			
-					
			r/Subject Matter Expert:		
Name:		Organization:	Signature:	Date:	
Holly L. Wheeler		EPC-CP	Signature on File	02-20-2020	
	Derivativ	ve Classifier: 🔀	Unclassified or 🗌		
Name:		Organization:	Signature:	Date:	
Steven E. Wolfel		EPC-CP	Signature on File	02-19-2020	
Approval Signatures:					
EPC-CP Reviewer:		Organization:	Signature:	Date:	
Terrill W. Lemke		EPC-CP	Signature on File	02-19-2020	
EPC-CP RLM:		Organization:	Signature:	Date:	
Taunia Van Valkent	ourg	EPC-CP	Signature on File	02-24-2020	
This copy is uncontrolled. Users are responsible for ensuring they work to the latest approved version. To document a required read, Login to <u>UTrain</u> , and go to the Advanced Search.					

Inspecting ISCO Stormwater Runoff	No: EPC-CP-TP-2103	Page 2 of 27
Samplers & Retrieving Samples	Revision: 0	Effective Date: 02/24/2020

#### **REVISION HISTORY**

Document Number and Revision [Include revision number, beginning with Revision 0]	Effective Date [Document Control Coordinator inserts effective date]	<b>Description of Changes</b> [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.

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#### 1.0 INTRODUCTION

Los Alamos National Laboratory (LANL) through Environmental Protection and Compliance-Compliance Programs (EPC-CP) conducts stormwater monitoring activities required pursuant to the National Pollutant Discharge Elimination System (NPDES), Multi-Sector General Permit (MSGP) at LANL. The MSGP requires LANL to monitor stormwater runoff from industrial sites relative to potential pollutants.

#### 1.1 Purpose

This procedure describes the process for inspecting ISCO automated samplers and retrieving stormwater runoff samples from outfall locations where LANL conducts stormwater monitoring pursuant to NPDES MSGP requirements. This procedure may also be used for other Associate Laboratory Directorate of Environment, Safety, Health, Quality, Safeguards, and Security (ESHQSS) stormwater monitoring activities as needed.

#### 1.2 Scope

The discharge of stormwater from specified industrial sites at LANL is regulated under the NPDES MSGP. The Laboratory's MSGP requires qualitative and quantitative stormwater monitoring (e.g., sample collection) to evaluate the effectiveness of control measures. Automated ISCO samplers coupled with liquid level actuators are used at MSGP monitoring stations and in support of other stormwater monitoring programs. Refrigerated (Avalanche<sup>®</sup>) 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<sup>™</sup> (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 <u>MODERATE</u>. Hazards in the work described in this procedure are controlled thorough a site specific Integrated Work Document (IWD) Part I. The IWD Part II (Form 2101) addresses site specific requirements and training by the Facility Operations Division (FOD).

Personnel performing steps in this procedure that involve electrical equipment **MUST** be trained to LANL electrical safety standards as prescribed in the IWD before performing those steps.

Personnel must wear appropriate clothing (e.g., boots, long pants, etc.) to perform work in the field.

Work may be discontinued during periods or conditions that make sites dangerous for worker safety or prevent personnel from safely accessing sites (e.g., weather-related events such as flash floods, flooding, lightning, wildfires, hail, icy roads, deep snow, or LANL operations such as firing shots or burns).

In the event of pest infestation (e.g., wasp or rat nests), do not attempt to remove the pest yourself. Call LANL Pest Control to coordinate the removal of the pest(s).

If conditions prevent field work, document the conditions in the Labor Report Update field on the form and notify the Program Lead or designee within 24 hours. Multiple attempts can be documented on the original form. If the target date cannot be met, the field personnel must contact the Program Lead no less than 24 hours before the target date for guidance.

## 2.2 Limitations

In MC Express, document responses to each question on a work order by clicking the expand arrow located on the right side of the task line and changing the "Complete" or "Failed" or "N/A" line to "Yes". When using a hard copy form, mark the appropriate check box.

Throughout this process, the field personnel will document comments and notations in the "Reading" field of the associated task line. Additional comments not documented in a "Reading" field can be entered in the "Comments" field of the same task line. If field personnel need more space, additional comments can be entered in the "Labor Report Update" field (see Section 4.10) when the work order is updated to "Complete" status. When using a hard copy form, document comments on the corresponding task line. If additional space is needed, comments can be entered in the "Labor Report" section at the bottom of the form.

Some terminology varies between the MC Express software and the Maintenance Connection desktop software.

• The "Reading" field in MC Express is the same field as "Reading Final" in Maintenance Connection desktop and "Meas." on a hard copy (printed) work order.

• The "Complete" option in MC Express is the same as a "Yes" answer; the "Failed" option in MC Express is the same as a "No" answer. Maintenance Connection desktop and hard copy (printed) work orders use "Yes" and "No" terminology.

## 3.0 PREREQUISITE ACTIONS

## 3.1 Planning and Coordination

- 1. Ensure that field personnel have access to accurate time measurement at the Site. When at the site, the clock time on the ISCO sampler must be set to Mountain Standard Time (MST) at all times, with no daylight saving time adjustment.
- 2. Schedule work to be completed by the target date appearing on the work order(s) or as requested by the MSGP Program Lead if a form is not issued.
- 3. Obtain any necessary additional paperwork before conducting this work, including IWD's, and excavation permits (as necessary).
- 4. As specified in the IWD, inform (e.g., by e-mail) facility contacts and/or Deployed Environmental Professional of the schedule for sampler work and locations up to a week before (preferred), but no later than the day before (for minor changes) so work may be added to the appropriate plan of the day.
  - **NOTE:** For some FODs like the Utilities and Institutional Facilities FOD, MSGP stormwater monitoring activities are on a standing plan of the day. However, this must be requested each year at the beginning of the monitoring season.
- 5. Gather the required equipment (see Section 3.3) for the work to be done.
- 6. Using the Safari or Chrome web browser on a tablet or notebook style computer, navigate to http://express.maintenanceconnection.com and select English from the available dropdown menu.
- 7. Log into the MC Express application (http://express.maintenanceconnection.com) and confirm that the work order list displayed matches your sites. If the work order lists do not match, contact EPC-CP Data Management personnel for clarification.
- 8. In MC Express, click on the appropriate work order number to open the work order. The work order will open in the display to the Work Order Summary page.
- 9. Click on the "Tasks" bar to navigate to the work order Tasks page. See MC Express screen shot examples in Attachment 1.
- 10. Always log out of MC Express when you have finished work OR if work is 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<sup>®</sup> Installation and Operation Guide; or
- ISCO 701 pH/Temperature Module Installation and Operation Guide (if equipped at a station).

# 3.3 Special Tools, Equipment, Parts, and Supplies

Ensure the following equipment is available.

- Safety glasses;
- Sturdy hiking boots or steel toed shoes (as needed) with soles that grip and other required facility specific Personal Protective Equipment;
- Nitrile gloves;
- Leather gloves;
- Cell phone (only government cell phones are allowed in secure areas). (See <a href="https://int.lanl.gov/policy/documents/P217.pdf">https://int.lanl.gov/policy/documents/P217.pdf</a> for requirements for using portable electronic devices on Laboratory property);
- Copy of this procedure;
- Copy of the IWD;
- EPC-CP MSGP SAP most recent revision for the current monitoring year OR project specific monitoring plan;
- Site Map(s) (as needed);
- Current electronic or paper inspection form EPC-CP-TP-2103 Form 1, *MSGP ISCO Sampler Inspection and Sample Retrieval;*
- Government issued electronic tablet with Safari or Chrome web browser and Blackberry UEM<sup>™</sup> app. (See <u>https://int.lanl.gov/policy/documents/P217.pdf</u> for requirements for using portable electronic devices on Laboratory property);
- Water Sample Collection and Processing Log/Field Chain of Custody (SCPL) (see EPC-CP-QP-2106);
- Access to accurate time measurement;
- Necessary access and station keys;
- Insulated hand tools;
- Charged spare battery(s);

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- 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<sup>®</sup>;
- Paper Towels;
- Marker pen (permanent, waterproof);
- Ball point pen;
- Re-sealable zipper storage bags (e.g., Ziploc<sup>®</sup>);
- Custody seals; and
- 0.45 micron filter (where applicable).

## 4.0 INSPECTING THE SAMPLER AND SAMPLE RETRIEVAL

Inspection of ISCO samplers is performed weekly during the sampling season. Samples retrieved are determined at a sampling station based on the current year SAP. See Attachment 1 for screen shot examples of EPC-CP-TP-2103 R0 Form 1, *ISCO Sampler Inspection and Sample Retrieval* in MC Express. See Attachment 2 for an example of the form in hard copy format.

**NOTE:** Each ITEM number listed in red font below corresponds to a red numbered box on both screenshots (Attachment 1) and hard copy format (Attachment 2).

## 4.1 Inspecting the Sampler

#### 4.1.1 On Arrival

- [1] Remove the top cover from the sampler.
- [2] **ITEM 1**: Check and document the sampler is ON and its condition upon arrival. Explain any non-functional status.
  - [a] <u>IF</u> a sampler has been inactivated (e.g., sample collection completed) prior to this inspection but continues to appear on the inspection form, <u>THEN</u> 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] <u>IF</u> there is no indication of flow and the sampler triggered due to a non-flow event, <u>THEN</u> 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] <u>IF</u> the sampler is set incorrectly, <u>THEN</u> reprogram for the correct MST.
  - [b] Describe the work performed and correction applied (e.g., "ISCO clock was X minutes slow").
- [6] If the location has more than one sampler, complete Steps 1 through 5 for each sampler.

## 4.1.2 Water Collection Information

- [1] Don nitrile gloves and safety glasses.
- [2] Remove the center section from the sampler.
- [3] **ITEM 4**: Document evidence of storm water flow at the sampling location by describing the evidence of flow (e.g., sediment or vegetation movement, erosion, standing water).
  - [a] <u>IF</u> the sampler did not trip but there is evidence of flow, <u>THEN</u> document the date and time storm water discharge began from the precipitation report.
  - [b] <u>IF</u> the sampler tripped or collected storm water, <u>THEN</u> document the date/time stamp from the sampler (or from the precipitation report if the sampler did not record a date/time stamp).
- [4] **ITEM 5**: Document that storm water is collected.
  - [a] Document if the water is taken by grab sample.
  - [b] Complete the Bottle Information (ITEM 20) in Section 4.1.7.
  - [c] Follow the steps in thru Section 4.2 Step 16 to retrieve samples.
- [5] **ITEM 6**: For Avalanche samplers only, record the current refrigerator temperature in degrees Celsius (°C) when water is collected.

- [a] <u>IF</u> unable to review the temperature, <u>THEN</u> check "No" and describe the condition (e.g., dead battery, electrical short).
- [6] **ITEM 7**: For Avalanche samplers equipped with an ISCO pH and Temp Module, check and document a pH measurement was taken on the collected water.
  - [a] Record the pH measurement taken at the time Bottle 1 was filled as "Average:Minimum:Maximum."
  - [b] <u>IF</u> unable to review the pH, <u>THEN</u> check "No" and describe the condition (e.g., damaged meter).

## 4.1.3 Water Retrieval Information

- [1] **ITEM 8**: Check and document whether a sample volume was retrieved from the sampler and taken off site.
  - [a] Record the estimated total volume in liters (L) or milliliters (ml) taken off site.
- [2] **ITEM 9**: Check and document whether a visual assessment of the water was performed (refer to EPC-CP-QP-2105).
  - [a] Do **NOT** conduct a visual assessment on a filtered sample. Record "Filtered sample."

#### 4.1.4 On Departure

#### WARNING

You MUST be trained to LANL electrical safety standards as prescribed in the IWD before performing Steps 2 and 3.

- [1] Prepare yourself in accordance with the IWD for electrical work (e.g. wear safety glasses and leather gloves, use insulated tools, no jewelry or anything metal hanging from body, etc.,).
- [2] **ITEM 10**: Check that all cable and electrical connections are attached and firmly tightened (not loose) upon departure.
  - **NOTE:** Connections may work loose over time due to temperature changes and if there are dis-similar metals at the connection points. The loose connections can introduce voltage spikes, which inherently cause current spikes that may result in blown fuses.
  - [a] <u>IF</u> the cables require replacement, connections require tightening, or other maintenance performed, <u>THEN</u> describe the work performed (e.g., "tightened connectors on battery).
  - [b] IF maintenance cannot be completed at the time of inspection,

<u>THEN</u> describe the condition (e.g. cables chewed through by animal) and follow-up work needed (e.g., replace cables).

- [3] **ITEM 11**: Use a voltage meter to check the power supply.
  - [a] Record the voltage of the battery(ies) in volts (V).
  - [b] Document if battery voltage is acceptable upon departure from the site (≥11.7 for non-floating charged batteries at ISCO 3700 samplers and ≥11.0 for floating-charged batteries at Avalanche samplers).
  - [c] Replace a battery with a charged battery when the voltage is not acceptable.
  - [d] Check the voltage of the solar panel if access can be gained to the weather protected terminal covers on the back of the panel.
  - [4] Contact the program Electrical Safety Officer if any issues with wiring or batteries cannot be resolved on site.

## 4.1.5 Equipment Specific Tasks

- [1] **ITEM 12**: Check and document the sampler passes the diagnostic test. (Refer to EPC-CP-TP-2102 or sampler Operator's Guide for instructions on running a diagnostics test.)
  - [a] <u>IF</u> a sampler has been inactivated (e.g., sample collection completed) prior to this inspection but continues to appear on the inspection form,
     <u>THEN</u> 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] <u>IF</u> the internal pump tubing has reached or exceeded the preset pump counts (500,000 for ISCO 3700s, 1,000,000 for Avalanches),
   THEN replace the pump tubing and reset the pump counts.
- [3] **ITEM 13**: Check and document the sample tubing is free or clear of debris.
  - [a] Clear obstructions as needed and document maintenance performed.
- [4] Check the physical condition of sample tubing and vent tubing.
  - [a] Replace tubing as needed and document maintenance performed.
- [5] **ITEM 14**: Check and document the sample tubing has passed a suction test.
- [6] **ITEM 15**: Check and document the sampler is ON prior to departing the site.
- [7] **ITEM 16**: Check and document the liquid level actuator has been set to "Latch" prior to departing the site.

- [a] IF the sampler tripped and requires reset of the sampling program, THEN reset the actuator by toggling the switch to "Reset" and back to "Latch."
- [8] **ITEM 17**: Check and document the ISCO programming displays the following.
  - [a] ISCO 3700 sampler display should indicate "Sampler Inhibited."
  - [b] Avalanche sampler display should indicate "Program Disabled."
  - [c] Reprogram the sampler as needed and document maintenance performed.
- [9] Replace and secure the sampler top cover and secure the sampler shelter (if sampler is in a shelter).
- [10] If the location has more than one sampler, complete Steps 1 through 11 for each sampler.

#### 4.1.6 Maintenance Information

- [1] **ITEM 18**: Document maintenance completed while on site that is not documented elsewhere on the work order by describing the work performed.
  - **NOTE**: Maintenance items may include (but are not limited to) site clearing, installing new or additional equipment, removing equipment, animal/pest mitigation, problems with equipment location, etc.
- [2] IF a battery was replaced,

THEN record the voltage of the new battery and the battery identification number.

- [a] <u>IF</u> the battery does not have an identification number, <u>THEN:</u>
  - Contact the MSGP Program Lead to have one assigned.
  - Paint or write the number in a permanent manner on the battery.
- [3] **ITEM 19**: Document if maintenance is needed that was not completed while on site and that is not documented elsewhere on the work order.
  - [a] Describe on the work order the follow-up maintenance needed.
  - [b] When the maintenance has been complete, describe the actions taken to complete the work on the original work order.
  - [c] Record the maintenance completion date and time on the original work order.

#### 4.1.7 Bottle Information

[1] **ITEM 20**: Document water collected by recording the following information for each bottle by position number in the carousel.

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- Date (MM/DD/YY or MM-DD-YY) and time the ISCO collected water,
- Volume (L or ml) of water in the bottle,
- Type of bottle (e.g. G for glass, P for poly),
- Specific ISCO displayed message, if present.
- [2] IF the sampler(s) did not trigger,

<u>THEN</u> answer the task line question as "N/A" for Bottle #1 of each sampler and leave the other Bottle task lines unanswered.

- [3] <u>IF</u> a sampler has been inactivated (e.g., sample collection completed) prior to this inspection but continues to appear on the inspection form,
   <u>THEN</u> answer the task line question as "N/A". Subsequent questions regarding this sampler may be left unanswered in this section.
- [4] Proceed to Section 4.4 if no water was collected.

## 4.2 Retrieving Samples

Refer to the flow diagram in Attachment 3 as an aid in determining sample retrieval.

- [1] Don nitrile gloves and safety glasses.
- [2] Add up the estimated volume of water collected in the sampler.
- [3] Check that the estimated total volume of water in glass and poly matches the required volume for the specific location identified in the MSGP SAP.
  - **NOTE 1:** The volume of water required to complete analytical may vary by monitored location.
  - [a] <u>IF</u> the sample volume is sufficient to fulfill all analytical requirements, <u>THEN</u> continue to Step 4.
  - [b] <u>IF</u> the sample volume is sufficient to fulfill part of the analytical requirements, <u>THEN</u> consult the prioritization order on the MSGP SAP to determine which analytical to fulfill, <u>OR</u> contact the MSGP Data Manager. Continue to Step 4 but retrieve only the volume needed.
  - [c] <u>IF</u> the collected sample will NOT fulfill the minimum required volume for any analytical, THEN:
    - Complete a Visual Assessment if the sample is not filtered (refer to EPC-CP-QP-2105),
    - Record estimated total volume (L or ml) retrieved as "0" in ITEM 8,

- Return all water to the ground at the sampling location,
- Skip to Step 11.

#### CAUTION

ISCO Avalanche samplers are programmed to cool samples to 4°C. If water is collected and the refrigerator temperature reads higher than 6°C, **do not** retrieve samples that require ICE preservation. Samples do not meet preservation requirements.

- [4] Remove filled and partially filled bottles from the carousel one at a time.
- [5] For samples to be retrieved,
  - [a] Immediately place lids onto the sample bottles.
  - [b] Securely seal the lids.
  - [c] Place a custody seal on each bottle.
- [6] Write the following on each retrieved sample bottle.
  - Date and time collected (e.g., recorded by the ISCO sampler)
  - Sampler Location number
- [7] Conduct a Visual Assessment on a non-filtered sample (refer to EPC-CP-QP-2105).
- [8] Record estimated total volume (L or ml) retrieved in ITEM 8.
- [9] Place retrieved sample bottles in a cooler with blue ice (or equivalent).
- [10] Return any excess stormwater collected that exceeded the amount required to the ground at the location collected.
- [11] Install new certified clean sample bottles in the carousel to replace retrieved bottles.
  - [a] The number and type of bottles may vary. Ensure bottles match the configuration specified in the MSGP SAP.
- [12] Replace the 0.45-micron filter as needed.

**NOTE 2:** Consult the most current revision of the MSGP SAP for specifics.

- [13] <u>IF</u> the sampler is turned OFF for the quarter but new certified clean sample bottles and/or the filter have not been replaced,
   THEN note this as follow-up maintenance required in ITEM 19.
- [14] Replace and secure the center section of the sampler.
- [15] If the location has more than one sampler, complete Section 4.1.7 thru Section 4.2 for each sampler.
- [16] Return to Section 4.1.2, Step 5.

#### 4.3 Removing Stormwater Samples from the field

- [1] Transport retrieved samples and corresponding SCPL (see EPC-CP-QP-2106) to the EPC-CP Stormwater Program Laboratory at TA-59-1.
- [2] Sign and date/time the SCPL and place it with the samples in the refrigerator.
- [3] Ensure custody seal is intact on each sample bottle.
- [4] Refer to EPC-CP-QP-2106, *Processing MSGP Stormwater Samples* for processing and submitting samples for shipping to the SMO.
- [5] Ensure the EPC-CP Stormwater Program Laboratory door is locked upon exit.

#### 4.4 Completing the Inspection Form

See Attachment 1 for completing the form in MC Express and Attachment 2 for a hard copy example.

- [1] After all task lines have been completed, make sure you have clicked the "Save" bar at the bottom of the page.
- [2] Click the "Back" arrow button in the upper left hand corner to exit the work order Tasks page and return to the Work Order Summary page.
- [3] Click the checkered flag in the upper right corner of the Work Order Summary page to open the Work Order Status Update page. MC Express auto-populates the date and time fields.

#### CAUTION

MC Express automatically changes the work order status to "Closed."

- [4] **ITEM 21:** Click on the expand arrow located on the right side of the "New Status" field and select "Completed" from the available dropdown menu.
  - [a] Ensure the date and time auto-populated are the date and time the **work was** completed and *not* the date/time the form was filled out.
  - [b] <u>IF</u> work is performed over multiple days, <u>THEN</u> 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] <u>IF</u> using a hard copy form, <u>THEN</u> write the date and time the work was completed.
- [5] **ITEM 22:** The field personnel must type or write his/her name in the "Labor Report Update" field.

- [6] Additional notes, observations, or site conditions not documented in a task line "Reading" or "Comments" field can be documented in the "Labor Report Update" field.
- [7] Scroll down the page to the "Signature" bar and click the expand arrow on the left side of the bar to open the "Signature" field.
  - [a] **ITEM 23**: Capture an electronic signature by drawing with a finger on the tablet screen.

**NOTE:** The mouse must be used to sign electronically when using MC Express on a desktop screen (not a tablet).

- [b] If using a hard copy form, the field personnel will sign his/her name and date when the form is signed.
- [c] The field personnel is certifying that the information submitted is "true, accurate, and complete" by electronically signing work order.
- [8] Click on the "Save" bar at the bottom of the page to close the "Signature" field.
- [9] <u>IF</u> completing a hard copy, <u>THEN</u> return the form to the MSGP Program Lead.

## 5.0 TRAINING

Personnel performing steps in this procedure that involve electrical equipment **MUST** be trained to LANL electrical safety standards as prescribed in the IWD before performing those steps.

All EPC-CP personnel that execute the activities specified in this procedure must meet the minimum qualification and training requirements for their position as identified EPC-CP-PIP-2101, NPDES Multi-Sector General Permit Program. This will include "self-study" (required reading) for this procedure as assigned and documented in accordance with ADESH-TPP-301, *ADESH Training Program Plan*. Other participating LANL groups may require training documentation pursuant to local procedures.

Contract personnel that execute the activities specified in this procedure will be qualified and trained as required by the Exhibit D and Exhibit F. In addition, contract personnel will be required to complete "self-study" (required reading) of this procedure.

## 6.0 RECORDS

EPC-CP is the Office of Record for this document and must be maintained in accordance with PD1020, Document Control and Records Management and ADESH-AP-006, Records Management Plan. Records generated by this document will be submitted to the Records Management designated point of contact or document manager for document management.

Below are records generated as a result of implementing this procedure. Records generated are identified by title and type.

Record Title	QA Record	Non-QA Record
EPC-CP-TP-2103 R0 Form 1, ISCO Sampler Inspection and Sample Retrieval	$\boxtimes$	

#### 7.0 DEFINITIONS AND ACRONYMS

#### 7.1 Definitions

See LANL *Definition of Terms*.

#### 7.2 Acronyms

#### See LANL Acronym Master List.

°C	Degrees in Celsius
EPC-CP	Environmental Protection and Compliance-Compliance Programs
FOD	Facility Operations Division
IWD	Integrated Work Document
L	Liter
LANL	Los Alamos National Laboratory
MC Express	Maintenance Connection MC Express web application
ml	Milliliter
MSGP	Multi-Sector General Permit
MST	Mountain Standard Time
NPDES	National Pollutant Discharge Elimination System
SAP	Sampling and Analysis Plan
SCPL	Sample Collection and Processing Log/Field Chain of Custody
V	Volts

#### 8.0 **REFERENCES**

EPC-CP-QP-2105, MSGP Stormwater Visual Assessments

EPC-CP-QP-2106, Processing MSGP Stormwater Samples

EPC-CP-TP-2102, Installing, Setting Up, and Operating ISCO Samplers

EPC-CP-PIP-2101, NPDES Multi-Sector General Permit Program Implementation Plan

ADESH-TPP-301, ADESH Training Program Plan

ADESH-AP-006, Records Management Plan

PD1020, Document Control and Records Management

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#### 9.0 ATTACHMENTS

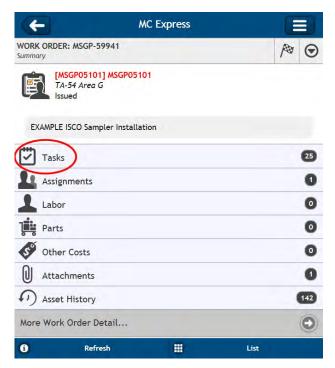
- Attachment 1: Screenshot Examples of EPC-CP-TP-2103 R0 Form 1, *ISCO Sampler Inspection and* Sample Retrieval in MC Express
- Attachment 2: EPC-CP-TP-2103 R0 Form 1, *ISCO Sampler Inspection and Sample Retrieval* Hard Copy Example
- Attachment 3: Sample Retrieval Flow Diagram

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# Attachment 1: Screenshot Examples of EPC-CP-TP-2103 R0 Form 1, ISCO Sampler Inspection and Sample Retrieval in MC Express

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Work Order Summary Page (Section 3.1, Steps 8 and 9)



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# Attachment 1: Screenshot Examples of EPC-CP-TP-2103 R0 Form 1, *ISCO Sampler Inspection and Sample Retrieval* in MC Express (cont.)

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Work Order Tasks page - On Arrival (Section 4.1.1, Steps 2-5)

	MC Express	
RDER: MS	GP-59941	Po @
RIVAL		
	r ON and functioning properly upon arrival? 10C01437] ISCO 3700 Sampler	0
	sampler display "Sampler Inhibited"? If No, record specific message(s). 10C01437] ISCO 3700 Sampler	0
	r time delta < 1 min (MST)? If No, record adjustment IOC01437] ISCO 3700 Sampler	0
	r ON and functioning properly upon arrival? 10J01522] ISCO Avalanche Sampler	0
	Avalanche display "Program Disabled"? If No, record specific message(s). 10J01522] ISCO Avalanche Sampler	0
	r time delta < 1 min (MST)? If No, record adjustment	0
Asset: [2'	10J01522] ISCO Avalanche Sampler Refresh III List	
Asset: [2	10J01522] ISCO Avalanche Sampler	
Asset: [2	IOJ01522] ISCO Avalanche Sampler  Refresh  MC Express  VORK ORDER: NSCR ERR11	
Asset: [2	I0J01522] ISCO Avalanche Sampler  Refresh  MC Express  WORK ORDER: MSGP-59941	
Asset: [2	MC Express         WORK ORDER: MSGP-59941         Edit Task         20         Is sampler ON and functioning properly upon arrival?         20         Is sampler ON and functioning properly upon arrival?         Reading         Sampler knocked over by bear, power disconnected	<ul> <li></li> <li></li> <li></li> </ul>
Asset: [2	MC Express         WORK ORDER:       MC Express         WORK ORDER:       MSGP-59941         Edit Task       20 Is sampler ON and functioning properly upon arrival? [210c01437] ISCO 3700 Sampler         Reading	<ul> <li></li> <li></li> <li></li> <li></li> </ul>
Asset: [2	MC Express         WORK ORDER: MSGP-59941         Edit Task         20         Is sampler ON and functioning properly upon arrival?         20         Is sampler ON and functioning properly upon arrival?         Reading         Sampler knocked over by bear, power disconnected	<ul> <li></li> <li></li> <li></li> <li></li> </ul>
Asset: [2	Refresh       List         MC Express       Edit         WORK ORDER: MSGP-59941       Edit         Z0       Is sampler ON and functioning properly upon arrival?         Image: Reading       Sampler No and functioning properly upon arrival?         Reading       Sampler knocked over by bear, power disconnected         Initials       Initials	
Asset: [2	Refresh       List         MC Express       Edit         WORK ORDER: MSGP-59941       Edit         Z0       Is sampler ON and functioning properly upon arrival?         Z10       Sampler ON and functioning properly upon arrival?         Reading       Sampler knocked over by bear, power disconnected         Initials       Edit	
Asset: [2	Refresh List     Refresh MC Express     WORK ORDER: MSGP-59941   Edit Task     20   Is sampler ON and functioning properly upon arrival?   [210C01437] ISCO 3700 Sampler     Reading   Sampler knocked over by bear, power disconnected   Initials     Failed?	
Asset: [2	Refresh List     MC Express     WORK ORDER: MSGP-59941     Edit Task     20   Is sampler ON and functioning properly upon arrival?   210201437] ISCO 3700 Sampler     Reading   Sampler knocked over by bear, power disconnected     Initials     Failed?   Yes     No     No	
Asset: [2	Refresh List     MC Express     WORK ORDER: MSGP-59941     Edit Task     20   Is sampler ON and functioning properly upon arrival?   [210c01437] ISCO 3700 Sampler     Reading   Sampler knocked over by bear, power disconnected   Initials     Failed?   Yes   No   Complete?     No	
Asset: [2	Refresh List     MC Express     WORK ORDER: MSGP-59941     Edit Task     20   Is sampler ON and functioning properly upon arrival?   210201437] ISCO 3700 Sampler     Reading   Sampler knocked over by bear, power disconnected     Initials     Failed?   Yes     No     No	

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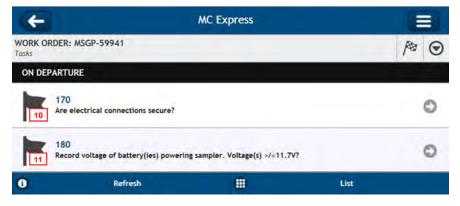
## Attachment 1: Screenshot Examples of EPC-CP-TP-2103 R0 Form 1, *ISCO Sampler Inspection and Sample Retrieval* in MC Express (cont.)

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Work Order Task Page – Water Collection Information and Water Retrieval Information (Sections 4.1.2, Steps 3-6 and 4.1.3, Steps 1 and 2)



Work Order Task Page - On Departure (Sections 4.1.4, Steps 2 and 3)

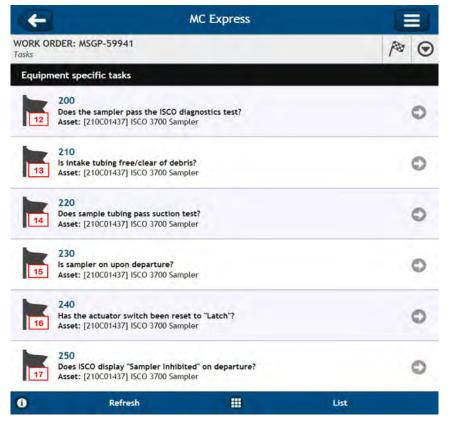


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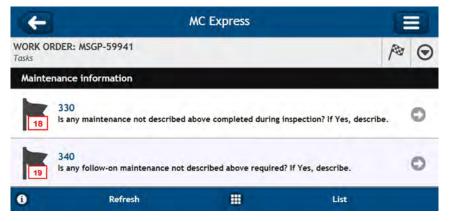
# Attachment 1: Screenshot Examples of EPC-CP-TP-2103 R0 Form 1, *ISCO Sampler Inspection and Sample Retrieval* in MC Express (cont.)

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Work Order Task Page – Equipment Specific Tasks (Sections 4.1.5, Steps 1-8)



Work Order Task Page – Maintenance Information (Sections 4.1.6, Steps 1-3)

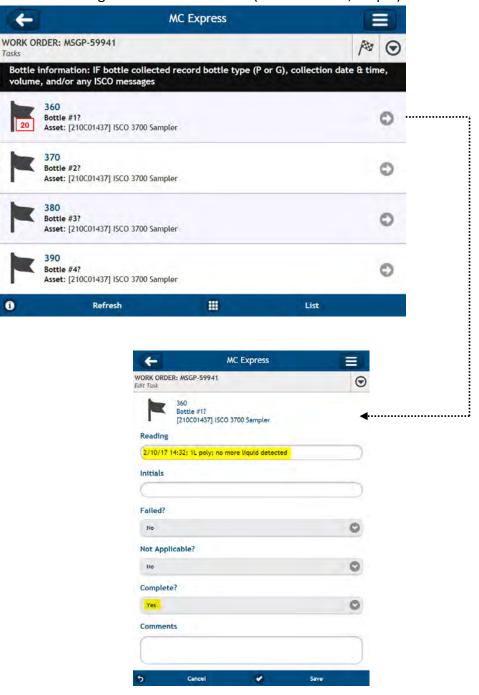


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# Attachment 1: Screenshot Examples of EPC-CP-TP-2103 R0 Form 1, ISCO Sampler Inspection and Sample Retrieval in MC Express (cont.)

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Work Order Task Page – Bottle Information (Sections 4.1.7, Step 1)

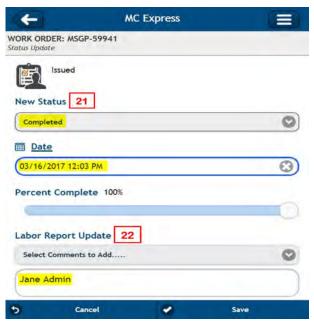


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# Attachment 1: Screenshot Examples of EPC-CP-TP-2103 R0 Form 1, *ISCO Sampler Inspection and Sample Retrieval* in MC Express (cont.)

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Work Order Status Update Page (Section 4.4, Steps 4 and 5)



Work Order Status Update Page (Section 4.4, Step 7)

Æ		MC Express	
WORK OR Status Upda	DER: MSGP-5994		
	nature 23		
(Remov		1 .	
6	Ime A	Amin	
5	Cancel		Save

Inspecting ISCO Stormwater Runoff	No: EPC-CP-TP-2103	Page 25 of 27	
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# Attachment 2: EPC-CP-TP-2103 R0 Form 1, *ISCO Sampler Inspection and Sample Retrieval* Hard Copy Example

(Page 1 of 2)

os Alamos National Lab - ADESH		Work Order MSGP-59941 MSGP Monitoring Station					
Maintenance Details			8/10/2017 - 11:25 AM (Duplicate Cop				
Request Procedu	ted By: Admin, Jane on 8/10/2019 11:23:00 AM	Target:12/31/2019 Priority/Type: / Inspection Department: Utilities and Infrastructure	▲ RG12	38 Carpen ored Outfa	iter Sho		
Last PM Project				Admin, Ja 123-4567			
Reason	Example ISCO Sampler Inspec	tion and Sample Retrieval					
Tasks -							
#	Description			Meas	No	N/A	Yes
ON AR	ISCO 3700 Sampler [210C0143]	7] Is sampler ON and functioning properly upo					П
30	record specific message(s).	7] Does the sampler display "Sampler Inhibite		_		п	<u> </u>
40	adjustment	<li>7] Is sampler time delta &lt; 1 min (MST)? If No, 01522] Is sampler ON and functioning proper</li>			п	п	п
50	arrival?	01522] Does the Avalanche display "Program	1.5		E	п.	п.
60	Disabled"? If No, record specific			-			<u> </u>
70 Water (	record adjustment				F	F	_ <u> </u>
90		6 (but no water collected), describe and record	date/time		Ē.		
100	Is any water collected? If YES, c	omplete Bottle Information section.			E.		П
110	ISCO Avalariche Sampler [210J0 refrigerator temperature (C)	01522] If water was collected, record current		_	E	Π	E
120		1C01137] If water was collected, record the p the sample date/time: AVERAGE_MINIMUM:	н				
1	Retrieval information					1	
140		D? If Yes, record total volume retrieved. rmed? If Yes, complete the MSGP Visual Asse	essment		-	-	-
	PARTURE			-			- 1.2
170	Are electrical connections securi			-		. []	
180		owering sampler, Voltage(s) >/=11,7V?	-	-	П		_
Equipm 200	nent specific tasks	7] Does the sampler pass the ISCO diagnosti	or tact?		-	÷.	
210		<ul> <li>Joes the sampler pass the ISCO diagnostic</li> <li>Is intake tubing free/clear of debris?</li> </ul>	ora reary	-	-	-	E
220		Is intake tubing free/clear of debris /     Does sample tubing pass suction test?		-		-	-
220		<ul> <li>Joes sample tubing pass suction test?</li> <li>Is sampler on upon departure?</li> </ul>		-		1	-
720		<ul> <li>7] Is sampler on upon departure?</li> <li>7] Has the actuator switch been reset to "Lato"</li> </ul>	610	-		1	-
230			41 7		- Lab	1.1	1.1.1
230 240 250		7] Does ISCO display "Sampler Inhibited" on			E	-	E

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# Attachment 2: EPC-CP-TP-2103 R0 Form 1, *ISCO Sampler Inspection and Sample Retrieval* Hard Copy Example (cont.)

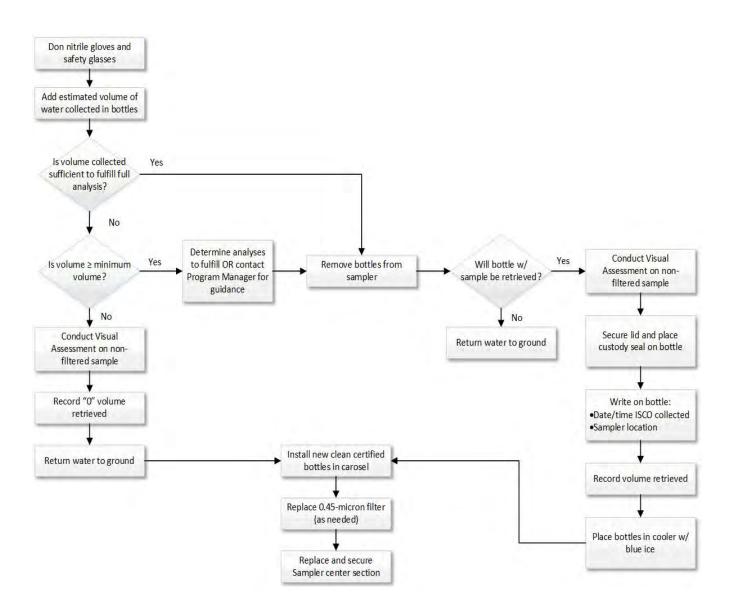
(Page 2 of 2)

260	ISCO Avalanche Sampler [210J01522] Does the sampler pass the ISCO diagnostics test?	10	1.4	1
270	ISCO Avalanche Sampler [210J01522] Is intake tubing free/clear of debris?	E		E
280	ISCO Avalanche Sampler [210J01522] Does sample tubing pass suction test?		17	_
290	ISCO Avalanche Sampler [210J01522] Is sampler on upon departure?	- E		
300	ISCO Avalanche Sampler [210J01522] Has the actuator switch been reset to "Latch"?			
310	ISCO Avalanche Sampler [210J01522] Does Avalanche display "Program Disabled" on departure?		n.	
Mainte	nance information			
330	Is any maintenance not described above completed during inspection? If Yes, describe.		10	г
340	Is any follow-on maintenance not described above required? If Yes, describe.		E	Ē
Bottle messa 360	Information: IF bottle collected record bottle type (P or G), collection date & time, volume, a ges ISCO 3700 Sampler [210C01437] Bottle #1?	and/or any I	sco	
370	ISCO 3700 Sampler [210C01437] Bottle #2?	-	-	1
380	ISCO 3700 Sampler [210001437] Bottle #3?		E	
390	ISCO 3700 Sampler [210C01437] Bottle #4?		10	- F
400	ISCO 3700 Sampler [210C01437] Bottle #5?	- E	E	Ē
410	ISCO 3700 Sampler [210C01437] Bottle #6?			E
420	ISCO 3700 Sampler [210C01437] Bottle #7?		-	
430	ISCO 3700 Sampler [210C01437] Bottle #8?		T	Ē
440	ISCO 3700 Sampler [210C01437] Bottle #9?	E	0	Ē
450	ISCO 3700 Sampler [210C01437] Bottle #10?		E	- F
460	ISCO 3700 Sampler [210C01437] Bottle #11?		E	Ē
470	ISCO 3700 Sampler [210C01437] Bottle #12?	- E	1	Ē
480	ISCO Avalanche Sampler [210J01522] Bottle #1?			Ē
490	ISCO Avalanche Sampler [210J01522] Bottle #22	17		Г
500	ISCO Avalanche Sampler [210J01522] Bottle #31			Ē
510	ISCO Avalanche Sampler [210J01522] Bottle #4?			Г
Compl	Report leted: 5/30/2019 4:44:00 PM t: Jane Admin			
	June Adam, a 5/30/2019 Signature / Name Signature / Name Signature / Name		Date	-
contit	in the information as recorded is true, accurate and complete.			

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## Attachment 3: Sample Retrieval Flow Diagram

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

EPC-CP-QP-2106		Revision: <b>0</b>		
Effective Date: 10/18/2019		Next Review Dat	e: 10/18/2022	NATIONAL LABORATORY EST. 1943
Environment	t, Safety, Hea	alth, Quality, S	afeguards, and Se	curity Directorate
Environment	Protection	and Compliand	e – Compliance P	rograms Group
Quality Proc	edure			
	Process	ing MSGP S	tormwater Sa	mples
Hazard Grading:	🛛 Low [	Moderate	High/Complex	
Usage Level:	Reference	UET		
Status:	 New	Major Revision	 Minor Revision	
				mat and numbering system
Survey Busisi			ubject Matter Expert:	
Name:		lization:	Signature:	Date:
Holly L. Wheeler	EPC-0		Signature on File	10-17-19
Name:		e Classifier: 🔀 Ur	classified or	Date:
Steven E. Wolfel	EPC-0	CP	Signature on File	10-17-19
Approval Signatures:				
EPC-CP Reviewer:	_	ization:	Signature:	Date:
Terrill W. Lemke		CP Team Leader	Signature on File	10-17-19
EPC-CP RLM:	_	ization:	Signature:	Date:
Taunia Van Valkenburg       EPC-CP Group Leader       Signature on File       10-18-19         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.				

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## **REVISION HISTORY**

<b>Document Number and Revision</b> [Include revision number, beginning with Revision 0]	<b>Effective Date</b> [Document Control Coordinator inserts effective date]	<b>Description of Changes</b> [List specific changes made since the previous revision]
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.

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# 1.0 INTRODUCTION

Triad 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 outfalls 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<sup>®</sup> 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-59-01).

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 <u>LOW</u>. An Integrated Work Document Part II (2101 Form) will address any site-specific requirements and training for Facility Operations Divisions (FOD) if required by the FOD.

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Use only sample containers that are documented to meet or exceed "US EPA Specification and Guidance for Contaminant-Free Sample Container" (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 season and/or the beginning of each MSGP monitoring quarter. The MSGP Data Manager will generate Chain of Custody/Analysis Request(s) from the Environmental Information Management (EIM) database as stormwater is collected. If the MSGP Data Manager is not available, forms will be obtained from the EPC-CP Sample Management Office (SMO).

## 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.

- Peristaltic Pump User Manual (e.g., GeoTech)
- 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
- Chain of Custody/Analysis Request
- 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
- 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 <a href="https://int.lanl.gov/policy/documents/P217.pdf">https://int.lanl.gov/policy/documents/P217.pdf</a> for requirements for using portable electronic devices on Laboratory property.

## 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.

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- [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 1).
- [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-QP-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 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 (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.
    - <u>IF</u> a visual assessment <u>WAS</u> performed, <u>THEN</u> 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 field
- [5] <u>IF</u> the person who retrieved the sample is processing, <u>THEN</u> write N/A in the first RELINQUISHED BY and RECEIVED BY boxes.
- [6] <u>IF</u> the person who retrieved the sample is NOT processing, <u>THEN</u>
  - [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.

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[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, HNO<sub>3</sub>).
  - [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] Mark each container lid with the 3-digit outfall ID, required analysis, filtration requirement, and preservative requirement.

**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] <u>IF</u> the SPECIAL INSTRUCTIONS box is not pre-populated, <u>THEN</u> 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] <u>IF</u> no further processing is required (e.g., chemical preservation), <u>THEN</u> 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.

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## 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 overpressurization.
  - [c] <u>IF</u> the sample contains a significant amount of sediment, <u>THEN</u> 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<sub>3</sub>), and sulfuric acid (H<sub>2</sub>SO<sub>4</sub>). 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

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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] <u>IF</u> you only have one size pre-measured preservative that does not match the sample container size, <u>THEN</u> 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<sub>3</sub>).

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[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) in sealed bottle(s) 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] <u>IF</u> 500 mL or greater remain in the bottle, <u>THEN</u> replace lid and mark the bottle with the date it was opened and "For Decon Use Only".
  - [b] <u>IF</u> less than 500 mL remain in the bottle, <u>THEN</u> 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-59-01) 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<sub>3</sub>).
  - [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:

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• Select two sample collection bottles next to each other in the automated sampler carousel.

- 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.

[1] <u>IF</u> any excess stormwater sample exists after processing has been completed, <u>THEN</u> perform the following steps.

#### **Sample Processor**

- [a] Ensure the container is labeled with the site of origin, date and time sample was collected, and "Return to Site."
- [b] Place the container in the designated storage location in the EPC-CP Stormwater Laboratory.

#### **EPC-CP** technical staff

- [c] Return the sample to the site of origin as soon as possible.
- [d] Discharge at the sampler location.
- [2] <u>IF</u> the excess stormwater has been altered (e.g., tap water or preservative added), <u>THEN</u> contact the TA-59-0001 Waste Management Coordinator for further instruction.

## 4.6 Submit Samples for Shipping to Offsite Analytical Laboratory

#### Sample Processor

[1] Deliver completed SCPL(s) to the MSGP Data Manager.

#### **MSGP** Data Manager

[2] Process the sample information in the EIM system.

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- [a] Capture any documented deviations from planned conditions (as noted on the SCPLs).
- [b] Generate Chain of Custody/Analysis Request (COC) form(s) and sample container labels to reflect the processed samples (see examples in Attachments 2 and 3).

#### Sample Processor

- [3] Ensure the sample containers are securely sealed and wiped dry.
- [4] Cross-check to ensure the Sample ID on the SCPL matches the Field Sample ID on the COC.
- [5] Compare the information from the SCPL and lid of each container and apply the correct labels to the sample containers.
- [6] <u>IF</u> the person who processed the sample is NOT submitting the samples to the SMO, <u>THEN</u>
  - [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**

- [7] Place the sample(s) in a cooler with sufficient Blue Ice<sup>®</sup> (or equivalent) to maintain the required preservation temperature ( $\leq 4^{\circ}$  C).
  - **NOTE:** Cushioning material (e.g., bubble wrap) may be used to separate containers to avoid breakage during transport
- [8] Place the SCPL(s) and COC(s) in a zip lock type bag, seal, and place in the cooler with samples.
- [9] Transport samples to the SMO.
  - [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 the refrigerator is locked.
- [10] Complete the COC form as follows:
  - [a] On the Relinquished By line, the person submitting the sample(s) will sign and print his/her name and date/time samples are relinquished to the SMO.

- [b] The SMO personnel accepts the sample(s) by signing and printing his/her name and recording the date/time on the Received By line.
- [11] 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. Sign and print your name on the SCPL in the "Relinquished By" box.
  - [c] Record the date/time that matches the data and time RELINQUISHED BY on the COC.
  - [d] Record the COC number (e.g., 2017-xxxx) in the RECEIVED BY box.
- [12] Ensure the following steps are taken:
  - [a] SMO makes a copy of the SCPL(s) to accompany the COC and samples.
  - [b] Keep the original SCPL(s) for the MSGP program.
  - [c] Make a copy of the signed Chain of Custody/Analysis Request.
- [13] Deliver the copy of the signed COC and original SCPL(s) to the MSGP Data Manager for record keeping.

# 5.0 TRAINING

All EPC-CP personnel that execute the activities specified in this procedure must meet the minimum qualification and training requirements for their position as identified EPC-CP-PIP-2101, NPDES Multi-Sector General Permit Program. This will include "self-study" (required reading) for this procedure as assigned and documented in accordance with ENV-DO-QP-115, *Personnel Training*. 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.

Personnel performing this procedure will be familiar with the most current versions of the following procedures and operation manuals:

- EPC-CP MSGP SAP for the current monitoring year
- EPC-CP-QP-2103 Inspecting Stormwater Runoff Samplers and Retrieving Samples for the MSGP

# 6.0 RECORDS

EPC-CP is the Office of Record for this document and must be maintained in accordance with PD1020, Document Control and Records Management and ADESH-AP-006, Records Management

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*Plan.* Records generated by this document will be submitted to the Records Management designated point of contact or document manager for document management.

Below are records generated as a result of implementing this procedure. Records generated are identified by title and type.

Record Title	QA Record	Non-QA Record
*Water Sample Collection and Processing Log/Field Chain of Custody	$\boxtimes$	
*Chain of Custody/Analysis Request	$\boxtimes$	
Copy of log book entry(s) (if a log book is used)	$\square$	
Other pertinent field or lab notes (if additional notes are required)	$\square$	

\*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.

СОС	Chain of Custody/Analysis Request					
EIM	Environmental Information Management					
EPA	Environmental Protection Agency					
EPC-CP	Environmental Protection and Compliance – Compliance Programs					
LANL	Los Alamos National Laboratory					
μm	Micron					
mL	Milliliter					
MSGP	Multi-Sector General Permit					
N/A	Not Applicable					
NPDES	National Pollutant Discharge Elimination System					
SAP	Sample Analysis Plan					
SCPL	Water Sample Collection and Processing Log/Field Chain of Custody					
SMO	Sample Management Office					

#### 8.0 **REFERENCES**

None.

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# 9.0 ATTACHMENTS

Attachment 1:Water Sample Collection and Processing Log/Field Chain of Custody ExampleAttachment 2:Sample Container Labels ExampleAttachment 3:Chain of Custody/Analysis Request Example

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#### Attachment 1: 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 RETRIEVAL 09:25 07/01/18 16:03 07/03/18 DATE/TIME: DATE/TIME: LOCATION ID: MSGP04301 SAMPLER TYPE: APS-R LOCATION TYPE: WCS SAMPLE PREP: UF LOCATION SYNONYM(S): NA FIELD QC TYPE: REG FIELD MATRIX: WT SAMPLE USAGE: COMP COLLECTED SPECIAL PROCESSING PRIORITY ORDER CONTAINER PRESERVATIVE # Y/N INSTRUCTIONS COMMENTS 500 ML POLY MSGP-TSS 1 ICE NA NIA NIA γ allele o SAMPLE COMMENTS: NIA FIELD PARAMETERS: Sample Time NA HH:MM PH 6.2 SU Visual Inspection\_ SU Visual Inspection WO# MSGP- 67890 COLLECTED BY Jane Doc Date/Time 07/03/18 (Printed Name) (Signature) 09:25 Date/Time Date/Time RELINQUISHED BY RECEIVED BY John Smith Jane Doe 07/03/18 (Printed Name) (Printed Name) 07/03/18 (Signature) (Signature) Smul 10:05 10:05 Date/Time PROCESSED BY John Smith (Printed Name) 07/03/18 (Signature) 13:00 RELINQUISHED BY Date/Time Date/Time RECEIVED BY John Smith See CoC# 07/04/18 (Printed Name) (Printed Name) Bin (Signature) 08:35 (Signature) 2017-1326 Date/Time Date/Time **RELINQUISHED BY** RECEIVED BY (Printed Name) A/V (Printed Name) Alu (Signature) (Signature) Report Date: 08/01/2018

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# Attachment 2: Sample Container Labels Example

(Page 1 of 1)

Sample ID: MSGP-17-13	1786		
Container: 500 ML POL	Y		1 of 1
Preservative: HNO3 ICE	6		
Analysis: NPDES-Al-Tota	al Recoverable		
Data/ 04/01/201	17 Time:	16:03	-

Los Alamos Natio	onal Labora	tory
Sample ID: MSGP-17-131787		
Container: 500 ML POLY		1 0/ 1
Preservative: HNO3 ICE		
Analysis: NPDES-Al-Total Recoverable	,	
Date/ 04/01/2017	Time: 16:03	6

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# Attachment 3: Chain of Custody/Analysis Request Example

(Page 1 of 1)

LANL SMO		9	Chair	10	fC	Cus	sto	dy	/Aı	na	lys	sis	Re	equ	es	t				2	OC/Lab Re 2017-1326 Page 1 of 1	quest	#:
Client Contact:	Lab Agreem	ent#:		Site	Site Name: Los Alamos National Laboratory																		
	Project Num Analysis Turn 24 Hour-	ber:											T							Ra	ad Screenin	ng Info	):
F	14 Days - 21 Days -			nZ.o								1	1								b Reportin Method De	-	10.55
Field Sample ID	Sample Date	Sample Time	Sample Matrix	MSGP-Zn									X	1									
MSGP-17-131904	Apr 1 2017	16:03	W	1						-	1		1										
MSGP-17-132187	Apr 1 2017	16:03	W	1					1			V	1								-		_
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Special Instructions:																						4/1=	2/17
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ATTACHMENT 21: EPC-CP-QP-0903, ENVIRONMENTAL REPORTING REQUIREMENTS FOR RELEASES OR EVENTS

EPC-CP-QP-0903		Revision: <b>0</b>							
Effective Date: 08/1	0/2021	Next Review Dat	e: 08/10/2024	NATIONAL	LABORATORY				
Environment, Safety, Health, Quality, Safeguards, and Security Directorate									
Environment	tal Protection	and Compl	iance – Complian	ce Programs (	Group				
Quality Proc	edure								
Enviror	nmental Rep	porting Red	quirements for I	Releases or	Events				
Hazard Grading:	🖂 Low	Moderate	High/Complex						
Usage Level:	Reference			tions:					
_									
Status:	New	Major Revisi							
	Review w/No Cł								
Safety Basis:	🖂 N/A	USQ	USI Number:						
	D	ocument Autho	r/Subject Matter Exper	t:					
Name:		Organization:	Signature:		Date:				
Steve Pearson		EPC-CP	Signature on File	08-10-21					
[	Derivative		Unclassified or 🗌		1				
Name:		Organization:	Signature:		Date:				
Steve Wolfel		EPC-CP	Signature on File		08-10-21				
Approval Signatures:									
EPC-WMP Reviewer:		Organization:	Signature:		Date:				
Patrick Padilla, Tear	n Leader	EPC-WMP	Signature on File		08-10-21				
EPC-CP RLM:		Organization:	Signature:		Date:				
Taunia Jean Sandqu	iist, Group Leader	EPC-CP	Signature on File		08-10-21				
		-	ponsible for ensuring they required read, Login to <u>UTI</u>	work to the latest a					

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#### **REVISION HISTORY**

<b>Document Number and Revision</b> [Include revision number, beginning with Revision 0]	Effective Date [Document Control Coordinator inserts effective date]	<b>Description of Changes</b> [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.

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#### 1.0 INTRODUCTION

This Environmental Protection and Compliance – Compliance Programs (EPC-CP) procedure describes how to determine whether an unplanned release, spill, fire, or other event needs to be reported under environmental regulations and how to fulfill all immediate reporting requirements (within the first 24 hours). Emergency and abnormal event notification requirements for reporting to Laboratory and DOE management are specified in PD1200, *Emergency Management Program*, and P322-3, *Performance Improvement from Abnormal Events*. Environmental reporting requirements regarding releases or other events are included in this procedure.

# 1.1 Purpose

This procedure describes the actions that must be performed within the first 24-hours of the release. This procedure does **not** cover the response procedures for "continuous releases" under Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) and Emergency Planning and Community Right-to-Know Act (EPCRA) (see definitions) nor the follow-up notifications and reports.

# 1.2 Scope

This procedure describes the separate environmental pathway processes that determine if a release or event at Los Alamos National Laboratory (LANL or the Laboratory) is reportable.

# 1.3 Applicability

This procedure applies to EPC-DO on-call representatives and subject matter experts (SMEs) who must respond to any release, spill, or event at the Laboratory that may require immediate notification to local, state or federal regulatory agencies.

#### 2.0 PRECAUTIONS AND LIMITATIONS

The work described in this procedure includes fieldwork that does not require an Integrated Work Document (IWD), has a **LOW hazard** rating and has been analyzed by an SME, the EPC-CP group leader and the responsible line manager (RLM), and is consistent with LANL P300, *Integrated Work Management* (IWM).

Actions specified within this procedure, unless preceded with "should" or "may," are to be considered mandatory (i.e., "shall", "will", "must").

# 3.0 PREREQUISITE ACTIONS

None.

#### 3.1 Planning and Coordination

Events covered by this procedure include detonation or burns of unstable material, leaking or compromised gas cylinders, puncturing of bulging containers, fires, explosions, chemical or

radiological spills, wastewater spills, potable water discharges, and other unplanned releases at the Laboratory.

On a quarterly basis, EPC-CP will prepare a list of individuals designated as on-call representatives and will designate the week each will be on-call. This list will be distributed to on-call representatives and Laboratory managers including Deputy Directorate for Operations (DDOPS), Associate Directorate for Environment, Safety, and Health, Quality, Safeguards & Security (ESHQSS), Emergency Operations Center (EOC), Environmental Protection and Compliance Division – Compliance Programs Group (EPC-CP), and the Environmental Stewardship Group (EPC-ES).

**Note:** the on-call list should also be available on the LANL internal website. Environmental Home page, Environmental Contacts – On-Call Schedule. The on-call representative can be reached by pager at 505-664-7722.

# 3.2 Collaboration with other Subject Matter Experts (SMEs)

If needed, coordinating with other on-call SMEs and the EOC to ensure the required notifications for environmental reporting and abnormal events are being addressed for the Laboratory.

# 4.0 PROCESS DESCRIPTION

# 4.1 Reporting Releases to Pueblo Environment Departments

The Memorandum of Agreement between the U.S. Department of Energy through the Los Alamos Field Office of the National Nuclear Security Administration (NNSA), the Office of Environmental Management (EM), and the Pueblo de San Ildefonso strengthens the existing relationship between the parties as evidenced in the Restatement of 2005 Accord (MOA). It provides the foundation and framework for the parties to address and resolve specific issues of mutual concern. This MOA requires both DOE field offices (NNSA and EM) and its contractors to follow the protocols between the parties.

The Cooperative Agreements between the Pueblos of Cochiti, Jemez, and Santa Clara and the Los Alamos National Laboratory establish trust relationships with the Pueblos to resolve issues of mutual concern. To the extent funding is available and as otherwise agreed to in writing by Triad and the Pueblos, Triad will provide in-kind technical assistance to the Pueblos in areas of economic development, education, cultural resources, the environment, and emergency preparedness and response.

In the event of a release that impacts or may potentially impact Pueblo lands, notification to the impacted Pueblo Environment Department will be coordinated through the Laboratory's Tribal Liaison (505-629-2198) who will contact and notify the Department of Energy (DOE) Los Alamos Field Office (NA-LA) Intergovernmental Specialist to notify the Pueblos pursuant to protocols. If the release is identified to be an emergency where activation of the EOC is necessary, the LANL Emergency Response Organization will be responsible for contacting the affected Pueblos in accordance with PD1200, Emergency Management Program.

A list of Pueblo contacts is kept at the Laboratory's Tribal Liaison's office.

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#### 4.2 Responsibility of On-Call Representatives

#### The EPC on-call representative is the party primarily responsible for:

- 1) Responding to any notifications received on the Spills/Unplanned Release pager.
- 2) Determining if the incident will require immediate notification to external agencies in accordance with LANL, state, and federal regulatory reporting requirements.
- 3) Notifying EPC Division management of immediate reporting requirements.
- 4) In the event that the release is a non-emergency and Pueblo lands are impacted, notification to the impacted Pueblo Environment Department will be coordinated through the Laboratory's Tribal Liaison (505-629-2198) who will contact and notify the Department of Energy (DOE) Los Alamos Field Office (NA-LA) Intergovernmental Specialist to notify the Pueblos and the Office of Environmental Management if necessary.

# The EPC on-call representative is not responsible for the following and EOC will make these determinations:

- 1) If the Resource Conservation Recovery Act (RCRA) Contingency Plan must be implemented.
- 2) If a shock-sensitive material, leaking, or compromised gas cylinder constitutes an emergency.
- 3) If the release is associated with an emergency where activation of the EOC is necessary, and if so, contacting the affected Pueblos in accordance with PD1200, *Emergency Management Program*.

However, in order to ensure that the appropriate expertise is available for the affected media, the EPC on-call representative may immediately confer with an SME of the EPC group that has programmatic responsibility. If an SME from the responsible group is able to respond to the event, the <u>remaining steps in this procedure may be passed to that person</u>. See the link for EPC Contacts: <u>Environmental Protection and Waste Management Contacts list</u>.

**Note:** The Pueblo Environmental Department(s) notification process will be implemented in parallel with regulatory- or permit-driven reporting. In the event of a conflict between the two reporting needs, this process is second priority.

# 4.3 Follow-up Reporting

This procedure describes the initial external notifications (within the first 24 hours) to regulatory agencies. After completion of the steps in this procedure, the EPC group or team specifically responsible for compliance with the relevant regulations will complete the required notifications and reports, as applicable under the appropriate regulations, according to established procedures.

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#### 4.4 Summary of Policy Reporting

The EPC on-call representative and spill response SMEs have the authority and responsibility for deciding when to report an event and for making notifications to regulatory agencies within the applicable regulatory deadlines.

LANL management and Department of Energy (DOE) Los Alamos Field Office (NA-LA) must be informed as soon as possible that a report was or will be made, but their approval is not required prior to the report being made to the regulatory agency. LANL Facility Operations Director (FOD) management, with input from EPC SMEs, will determine if an Occurrence Reporting Processing System (ORPS) report or other type of Lessons Learned will be necessary.

**NOTE:** EOC maintains a current list of on-call LANL managers.

#### 4.5 Using this procedure

This procedure has seven separate paths (and corresponding sections) to follow for determining if a release or event is reportable. Follow each of these paths to determine if one or more are applicable:

- [1] Resource Conservation and Recovery Act (RCRA)
- [2] Toxic Substances Control Act (TSCA)
- [3] Clean Water Act (CWA), New Mexico Water Quality Act (NMWQA), and New Mexico Water Quality Control Commission (NMWQCC) Regulations
- [4] Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) and Emergency Planning and Community Right-to-Know Act (EPCRA)
- [5] Clean Air Act (CAA)
- [6] Biological
  - [a] Endangered Species Act
  - [b] Bald and Golden Eagle Protection Act
  - [c] Migratory Bird Treaty Act
  - [d] New Mexico Wildlife Conservation Act
- [7] Cultural
  - [a] National Environmental Policy Act (NEPA)
  - [b] National Historic Preservation Act
  - [c] Native American Graves Protection and Repatriation Act
  - [d] Archaeological Resources Protection Act

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Each release needs to be evaluated for all potential reporting requirements. For example, a Reportable Quantity (RQ), defined under CERCLA or EPCRA may not be met, **but the release may be reportable** under RCRA, New Mexico Water Quality Control Commission (NMWQCC), and/or Clean Water Act (CWA) requirements.

**NOTE:** The 24-hour deadline (immediate in some cases) applies regardless of whether it occurs during business hours, after business hours or on non-business days.

# 4.5.1 Determining if a Release is Reportable under RCRA

Follow the flow chart in Attachment 1 to determine if an event is reportable under RCRA regulations.

Under the RCRA permit No. NM0890010515-1 requirements, the EOC manager determines if the "RCRA Contingency Plan" provisions should be implemented. The EPC on-call representative or an EPC Waste Management Programs (EPC-WMP) RCRA SME performs notifications that may be required.

The EOC Manager will normally attempt to contact an EPC-WMP SME for guidance in making this decision. If the EPC-WMP SME is successfully contacted, the remaining steps for determining if a release is reportable under RCRA may be passed on to this individual.

The EPC on-call representative makes the determination that one or more of these conditions occurred through consultation with EPC-WMP and appropriate SMEs. The 24-hour notification can be made by the EPC on-call representative or by an EPC SME.

The EOC manager makes the determination that unstable chemicals, leaking, or compromised gas cylinders represent an emergency situation. The EOC manager works with EPC-WMP to ensure that 24-hour notifications are made by the on-call representative or EPC-WMP SME.

If a release/event is reportable under RCRA rules, determine if the release/event is reportable under other rules and proceed to Section 4.4.5 Reporting a Release or Event.

# 4.5.2 Determining if a Release is Reportable under TSCA

In practice, only spills of Polychlorinated Biphenyls (PCBs) or PCB-suspect untested mineral oil to the environment (generally outdoors or with the potential to reach the outdoors) are reportable. Spills that are contained indoors are generally not reported.

A discharge of PCBs is reportable to the Environmental Protection Agency (EPA) under TSCA if 1 pound of PCBs by weight is released in accordance with 40 CFR 761.125(a)(1), *Requirements for PCB spill cleanup*. Notify the EPA regional office and proceed with the immediate clean-up requirements noted in 40 CFR 761.125(a)(1) in the shortest possible time after discovery, but in no case later than 24-hours after discovery. Additionally, reporting requirements are triggered if over 270 gallons of untested mineral oil suspected of containing PCBs has been spilled.

Follow the steps in Section 4.5.4, *Determining if a Release is Reportable under CERCLA, EPCRA, or Other Regulations* to determine if the RQ for PCBs has also been exceeded.

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There are six items containing PCBs that are out of service at the Chemistry and Metallurgy Research (CMR) Building. They are scheduled for removal within the next year or so. All other known PCB equipment at the Laboratory have been taken out-of-service and disposed of in accordance with TSCA regulations.

If a release is reportable under TSCA, continue through the next sections to determine if the release/event is reportable under other rules and proceed to *Reporting a Release or Event* and determine if additional reporting is necessary.

If the spill is	Then
equal to or over 1 pound by weight of PCBs (TSCA) or greater than 270 gallons of untested mineral oil suspected of containing PCBs	Report to the National Response Center (1-800-242-8802) immediately (within 15 minutes of discovery). Additionally, contact EPA Region 6 (Office of Prevention, Pesticides and Toxic Substances Branch) through EPA's 24-hour spill response number 866-372-7745 as soon as possible after discovery, but no later than 24-hours after discovery.

# 4.5.3 Determining if a Release is reportable under the CWA NMWQA, and NMWQCC

# 20.6.2.1203 New Mexico Administrative Code (NMAC) Reporting

The NM Water Quality Act (NMWQA) does not use Reportable Quantities (as described in the next section). Instead, the NM Water Quality Control Commission (NMWQCC) regulations state, "With respect to any discharge from any facility of oil or other water contaminant, in such quantity as may with reasonable probability injure or be detrimental to human health, animal or plant life, or property, or unreasonably interfere with the public welfare or the use of property, notifications (to the New Mexico Environment Department (NMED)) and corrective actions are required."

The above rule requires the use of professional judgment to determine the magnitude and extent of the release and ultimately if external reporting is required. While no quantifiable metric is available to assist in making this determination, in general if any of the following three conditions are met external reporting will be completed:

- 1) more than 10-gallons of oil or other liquid is released,
- 2) if any volume of oil or other liquid reaches a watercourse, or
- 3) if it adversely impacts a Solid Waste Management Unit (SWMU) or Area of Concern (AOC), for example, requiring excavation or causing erosion.

The EPC on-call representative or SME has the authority and responsibility to make this determination.

Additionally, unplanned releases of potable water or steam condensate require reporting pursuant to 20.6.2.1203 if the release does not reach a watercourse, or if it adversely impacts a SWMU or AOC, as directed in the LANL Liquid Discharge Reporting Guidance (Decision Tree), dated March 10, 2009.

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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 24hours 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 <u>toxic or adverse effect</u> 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 <u>toxic or adverse effects</u> 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 <a href="https://www.epa.gov/npdes/pesticide-permitting">https://www.epa.gov/npdes/pesticide-permitting</a>.

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 <u>immediately</u> (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 (<u>https://www.epa.gov/npdes/pesticide-permitting</u>).

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# 4.5.4 Determining if a Release is Reportable under CERCLA or EPCRA

Under CERCLA or EPCRA, the RQ is the threshold that requires immediate regulatory notification of a release. An RQ is based on the quantity of chemical released within any 24-hour period. Information on the RQ program as implemented by the DOE is on the web at:

https://www.energy.gov/ehss/services/environment/environmental-policy-andassistance/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://rgcalculator.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.

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Additionally, if there is a release of contaminants to a wetland, or impacts to the beneficial values of a wetland, the EPC on-call representative will coordinate with other EPC SMEs for applicable federal and state notifications and required actions as outlined in Section 4.5.3.

Contact a Biological Resources SME through the EPC-ES group office at 505-665-8855 and <u>epc\_biologists@lanl.gov</u> 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
- I) 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.

- 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	$\boxtimes$	
Documentation of any analytical results, and quality assurance of results	$\square$	
Contingency and / or emergency plan documentation	$\square$	
Documentation of any RCRA permit non-compliance that threatens human health and environment	$\square$	
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.

AOC	Area of Concern
AST	Aboveground Storage Tank
САА	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

#### 7.2 Acronyms

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EPCRA	Emergency Planning and Community Right-to-Know-Act	
EPC-WMP	Environmental Protection and Compliance – Waste Management Programs Group	
ESHQSS	Environment, Safety, Health, Quality, Safeguards and Security	
FOD	Facility Operations Director	
GWDP	Ground Water Discharge Permit	
HEWTF	High Explosives Waste Treatment Facility	
HS	Hazardous Substance	
IWD	Integrated Work Document	
IWD	Integrated Work Document	
LANS	Los Alamos National Security	
LANL or Laboratory	Los Alamos National Laboratory	
LEPC	Local Emergency Planning Committee	
MOA	Memorandum of Agreement	
NA-LA	Los Alamos Field Office	
NMAC	New Mexico Administrative Code	
NMED	New Mexico Environment Department	
NMWQA	New Mexico Water Quality Act	
NMWQCC	New Mexico Water Quality Control Commission	
NNSA	National Nuclear Security Administration	
NPDES	National Pollutant Discharge Elimination System	
NRC	National Response Center	
ORPS	Occurrence Reporting and Processing System	
OSC	On-Scene Commander	
PADOPS	Principal Associate Directorate Operations	
PCBs	Polychlorinated Biphenyls	
PGP	Pesticide General Permit	
PST	Petroleum Storage Tank	
PSTB	Petroleum Storage Tank Bureau	
QP	Quality Procedure	
RAD	Responsible Associate Director	
RAEM	Radioactive Air Emissions Management team within EPC-CP	
RCRA	Resource Conservation and Recovery Act	
RLM	Responsible Line Manager	
RQ	Reportable Quantity	
SARA	Superfund Amendments and Reauthorization Act	
SDS	Safety Data Sheet	
SERC	State Emergency Response Commission	
SERF	Sanitary Effluent Reclamation Facility	

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SEO-DO	Security and Emergency Operations Division
SME	Subject Matter Expert
SWMU	Solid Waste Management Unit
SWWS	Sanitary Waste Water System
TSCA	Toxic Substances Control Act
UIC	Underground Injection Control

#### 8.0 REFERENCES

40 CFR 261, Protection of Environmental, Identification and Listing of Hazardous Waste

40 CFR 302, Protection of Environment, EPA, Designation, Reportable Quantities, and Notification

40 CFR 302.4, Designation of Hazardous Substances

40.CFR.302.6, Notification of Requirements

40 CFR 355, Emergency Planning & Notification

40 CFR 761.125(a)(1), Requirements for PCB spill cleanup

40 CFR 110.6, Discharge of Oil

20.5.7 NMAC, Environmental Protection, Petroleum Storage Tanks - Reporting Investigations of Suspected and Confirmed Releases

DOE – Office of Environmental Guidance, CERCLA Information Brief, EH-231-001-0490 (April 1990)

Federal Register, Volume 67, No. 47, Notices FRL-7172-4, Guidance on the CERCLA Section 101(10)H, Federally Permitted Release Definition for Certain Air Emissions

PD1200, Emergency Management Program

P1020-1, Laboratory Records Management

P300, Integrated Work Management

PD781, Training Program Management

P322-3, Performance Improvement from Abnormal Events

LANL RCRA Permit No. NM0890010515-1

LANL NPDES Permit No. NM0028355

National Response Center (NRC) Web Site: http://www.nrc.uscg.mil/

NMWQCC Regulations, 20.6.2 NMAC, dated December 1, 2001

New Mexico Environment Department Groundwater Discharge Permit DP-857

New Mexico Environment Department Groundwater Discharge Permit DP-1132

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New Mexico Environment Department Groundwater Discharge Permit DP-1589

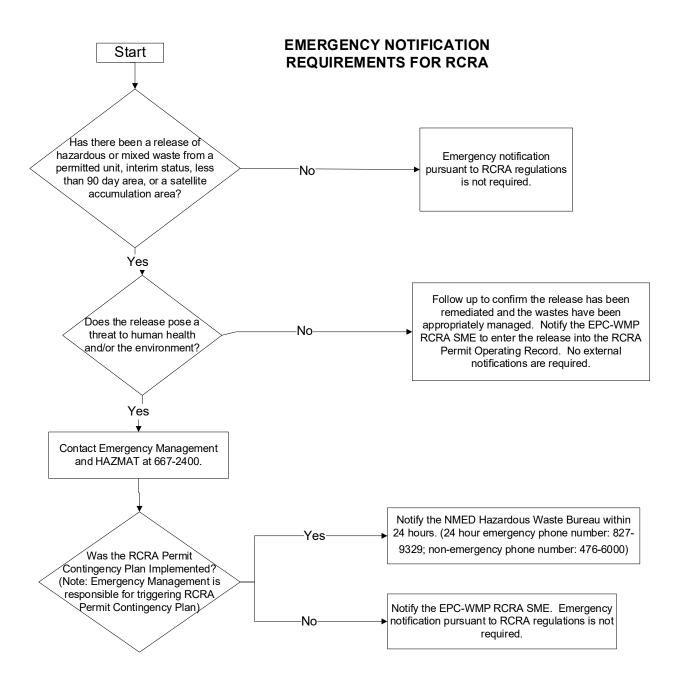
New Mexico Administrative Code (NMAC) 20.5.7

# 9.0 APPENDICES

#### **10.0 ATTACHMENTS**

**Attachment 1:** *Emergency Notification Requirements for RCRA* **Attachment 2:** *Summary of Emergency Release or Event Reporting Requirements* 

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#### Attachment 1: Emergency Notification Requirements for RCRA

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# Attachment 2: Summary of Emergency Release or Event Reporting Requirements

**NOTE:** This is only a guide and does not cover all federal, state, or permit reporting requirements. Refer to the Code of Federal Regulations and the RCRA Permit for more details regarding these regulations.

STATUTE	REGULATIONS	INCIDENT	Immediate Reporting Requirements	Follow Up Reporting Requirements
Clean Water Act	40 CFR §110.6	Oil discharge (film/sheen/discoloration) to water surface or shoreline, or violation of water quality standards.	Immediately (within 15 minutes of discovery) notify the National Response Center.	Follow-up not required.
Clean Water Act	Part III of NPDES Permit No. NM0028355	Leak or unplanned release from an NPDES permitted outfall.	Notify the NPDES Outfall Permit Program Lead and EPC-CP Water Quality Team Leader upon discovery. The program lead or the EPC-CP Water Quality Team Leader will complete initial reporting requirements as required.	Required follow-up reporting will be completed by the NPDES Outfall Permit Program Lead and EPC-CP Water Quality Team Leader.
Clean Water Act (CWA)-NPDES Pesticide General Permit	40 CFR §122.28	Adverse incident that includes evidence that a person or non-target organism has been exposed to a pesticide residue or the person or non-target organism suffered a toxic or adverse effect.	Notify the EPA Region 6 Pesticide Permitting contact (214) 665-7500 within 24 hours.	Submit a 30 Day Adverse Incident Written Report to the EPA Regional Office.
New Mexico Water Quality Control Commission Regulations (NMWQCC Regulations)	20.6.2.1203 NMAC	Discharge from any facility of oil or other water contaminant, in such quantity as may with reasonable probability injure or be detrimental to human health, animal or plant life, or property, or unreasonably interfere with the public welfare or use of the property.	Notify the New Mexico Environment Department 505-827-9329 within 24 hours.	Submit 7 and 15 Day written follow up Corrective Action Reports (Copy EPA Region 6 on the 7 and 15 Day Reports).
New Mexico Water Quality Control Commission Regulations (NMWQCC Regulations)	20.6.2.3104 NMAC	Unplanned release of any volume from an activity or facility covered under an active Groundwater DP: DP-857: SWWS Plant, SERF, and Sigma Mesa Evaporation Basins DP-1589: Septic Tank/Disposal Systems DP-1132 Radioactive Liquid Waste Treatment Facility	Notify the New Mexico Environment Department 505-827-9329 within 24 hours.	Submit 7 and 15 Day written follow up Corrective Action Reports (Copy EPA Region 6 on the 7 and 15 Day Reports)

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STATUTE	REGULATIONS	INCIDENT	Immediate Reporting Requirements	Follow Up Reporting Requirements
New Mexico Petroleum Storage Tank Bureau Regulations	20.5.118 NMAC	A release of a petroleum product from regulated aboveground storage tank that exceeds 25 gallons, that causes a sheen on nearby surface water, or that creates a vapor hazard pursuant to 20.5.119.1902 NMAC	Contact the EPC-CP AST Program Lead and/or the EPC-CP Water Quality Team Leader prior to completing any external notifications. If required, the Petroleum Storage Tank Bureau (476- 4397) or NMED Emergency Spill Hotline (505-827-9329) must be contacted within 24 hours.	A written report describing the spill, release or suspected release and any investigation or follow-up action needs to be submitted to the PSTB within 7 days of the incident.
Federal Spill Prevention, Control and Countermeasure Requirements	40 CFR 112.4	A discharge of more than 1000 gallons of oil or more than 42 gallons of oil in a 12-month period.	Contact the EPC-CP AST Program Lead and/or the EPC-CP Water Quality Team Leader prior to completing any external notifications.	A written report describing the cause of the release / discharge of oil, corrective actions, measure's to prevent recurrence shall be submitted to the EPA Regional Administrator within 60 days.
Comprehensive Environmental, Response, Compensation, and Liability Act (CERCLA)	40 CFR §302.6(a)	Hazardous substance (listed in 40 CFR Table 302.4) release (Equal to or greater than an RQ).	Immediately (within 15 minutes of discovery) notify the National Response Center 1-800-424-8802.	Follow-up not required.
Emergency Planning and Community Right- to-Know Act (EPCRA)	40 CFR§ 355.40	Release of an extremely hazardous substance (listed in 40 CFR Part 355 Appendices A and B) or CERCLA hazardous substance (listed in 40 CFR Table 302.4) equal to or greater than RQ.	Immediately (within 15 minutes of discovery) notify the LEPC (505-662-8283) the SERC (505-476-9635). Immediately notify the 911 operator for a release that occurs during transportation or from storage incident to transportation. Notifying the LEPC/SERC is only required for a release of an Extremely Hazardous Substance.	A written follow-up emergency notice must be submitted to the LEPC and SERC as soon as practicable after the release.

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Requirements for Releases or Events	Revision: 0	Effective Date: 08/10/2021

STATUTE	REGULATIONS	INCIDENT	Immediate Reporting Requirements	Follow Up Reporting Requirements
Resource Conservation and Recovery Act (RCRA)	40 CFR 262.34, 263.30, 264.51, 264.56 & .196, 265.51, .56 & .196, 270.14, & .30, 273.17, .37 & .54, 279.43 & .53, 280.50, .52, .53, .60, &.61	Release of hazardous or mixed waste from a permitted unit, interim status, less than 90 day area or a satellite accumulation area which the RCRA Permit Contingency Plan was triggered.	Notify NMED Hazardous Waste Bureau within 24 hours (24 hour emergency phone number: 827-9329; Non-emergency phone number: 476-6000) See Attachment 1 for additional details.	Submit written report to NMED HWB within 5 days.
Clean Air Act/ Radionuclide NESHAP	40 CFR 61, Subpart H	Airborne release of radioactive material in excess of an RQ.	Notify the EPA Region 6 Health Physicist (Office- (214) 665-8541; Mobile- (214) 755-1530; Home – (972) 937-1900) immediately after providing notification to the NRC.	Follow-up will be coordinated by the EPC-CP RAEM team.
New Mexico Air Quality Regulation	20 NMAC 2.7	Incidents in which excess emissions exceed an air quality regulatory limit or air permit emission limit.	File initial report to NMED AQB no later than the end of the next business day after the exceedance was discovered. (Submitted on- line via NMED AQB Secure Extranet Portal (SEP)).	Submit final written report to NMED AQB within 10 business days.
Toxic Substance Control Act (TSCA)	40 CFR 761.120, 761.125	Over 1 pound by weight of PCBs (TSCA) or greater than 270 gallons of untested mineral oil suspected of containing PCBs.	Contact the National Response Center (1-800- 242-8802) and the EPA Region 6 Office of Prevention, Pesticides, and Toxic Substances Branch (1- 866-372-7745) as soon as	Within 24 hours. Follow-up: as required by agency.

ATTACHMENT 22: EPC-CP-QP-1007, SPILL INVESTIGATION

EPC-CP-QP-1007	PC-CP-QP-1007			• Los Alamos NATIONAL LABORATORY EST. 1943				
Effective Date: 06/03/2020 Next		Next Review D	Date: 06/03/2023					
Environment, Safety, Health, Quality, Safeguards, and Security Directorate								
Environment Protection and Compliance – Compliance Programs Group								
Quality Procedure								
Spill Investigations								
Hazard Grading:	Low	Moderate	High/Complex					
Usage Level:	🔀 Reference	UET	Mixed: UET Sections:					
Status:	New	Major Revision	Minor Revision					
	Review w/N	o Changes	Other:					
Safety Basis:	⊠ N/A		USI Number:					
Document Author/Subject Matter Expert:								
Name:		Organization:	Signature:	Date:				
Steve Pearson		EPC-CP	Signature on File	05-21-20				
Derivative Classifier: 🔀 Unclassified or								
Name:		Organization:	Signature:	Date:				
Steve Wolfel		EPC-CP	Signature on File	05-27-20				
Approval Signatures:								
EPC-CP Reviewer:		Organization:	Signature:	Date:				
Michael Saladen		EPC-CP	Signature on File	05-27-20				
EPC-CP RLM:		Organization:	Signature:	Date:				
Taunia Van Valkenb	ourg	EPC-CP	Signature on File	06-03-20				
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## **REVISION HISTORY**

<b>Document Number and Revision</b> [Include revision number, beginning with Revision 0]	Effective Date [Document Control Coordinator inserts effective date]	<b>Description of Changes</b> [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.

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## 1.0 INTRODUCTION

All spills and unplanned releases that occur at Los Alamos National Laboratory (LANL) must be evaluated, remediated, and documented to ensure corrective actions are completed and reporting requirements are fulfilled. The investigation of spills and coordination of corrective actions are delegated to the Environmental Protection and Compliance Division's Compliance Programs Group (EPC-CP).

## 1.1 Purpose

This EPC-CP procedure describes the steps for performing spill investigations throughout LANL.

## 1.2 Scope

The scope of this procedure is limited to the performance of spill and unplanned release response by EPC-CP personnel and/or authorized subcontractors. Activities include frequent and unscheduled site visits to any area of the Laboratory upon discovery of a spill or unplanned release as support staff for the on-scene Incident Response Commander, deployed environmental staff, or Facility Operations Directorate (FOD) designated facility representative. Support activities include evaluation and documentation of the spill/unplanned release; guidance regarding remediation; and reporting to regulatory agencies.

## 1.3 Applicability

This procedure applies to all EPC-CP personnel and after hours on-call personnel responsible for conducting spill investigations.

## 1.4 Authority

The EPC-CP Group Leader is the issuing authority for this document.

## 2.0 PRECAUTIONS AND LIMITATIONS

A Hazard Analysis was performed for the tasks associated with this procedure. The hazard rating for the activities described in this procedure is **LOW** and does not require an Integrated Work Document.

## 2.1 Precautions

Precautions apply to abnormal conditions or hazards to personnel or equipment that can be encountered while performing this procedure. The following precautions shall be taken when performing work using this quality technical procedure:

• Personnel shall wear appropriate clothing (e.g., boots, long pants, gloves, etc.) to perform spill investigations in the field. This may also include safety glasses, a hardhat, a safety vest, and/or safety shoes/boots as required by the location of the tank, equipment, and area to be inspected.

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• Work may be paused or discontinued due to conditions that make a location dangerous for worker safety or prevent personnel from safety accessing a site (i.e., flash floods, lightning, wildfires, hail, icy roads, deep snow, extreme temperatures, or hazardous LANL Operations such as firing shots, burns, or security).

## 2.2 Limitations

Limitations are defined boundaries (i.e., training, hold points) that are NOT to be exceeded while 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 Division – Emergency Operations Group (EMD-EO) or site personnel at all times.
- Spills or unplanned releases that occur on Department of Energy property due to activities performed by an organization not associated with Triad National Security, LLC (e.g., Los Alamos County, Newport News Nuclear BWXT Los Alamos (N3B), etc.,) are the responsibility of that organization. The respective organization is responsible for site remediation, completion of corrective actions, and fulfillment any external reporting requirements.
- Some spills or unplanned releases have 15-minute and 24-hour notification requirements. Personnel using this procedure must be familiar with the reporting requirements of <u>EPC-CP-QP-0903</u>, <u>Environmental Reporting Requirements for Releases</u>.

## 3.0 PREREQUISITE ACTIONS

## 3.1 Planning and Coordination

The response to spills and/or unplanned releases requires frequent and unscheduled site visits to any area of the Laboratory. Certain facilities and Laboratory locations require additional training and have specific access requirements that must be followed. Specific activities may include one or more of the following:

- Site-Specific Training (e.g., burn grounds).
- Coordination with Access Control and/or Security for escort, keys, safety (e.g., explosives areas, burn grounds, between security fences).
- Security Clearance (i.e., TA-3-66, TA-55, TA-16).

Site access for spill/unplanned release response will require that the Spill Investigator maintain multiple site-specific training requirements. It will also require that the Spill Investigator coordinate with the Emergency Operations Center (EOC), designated FOD representative, and/or Deployed Environmental Professional (DEP).

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#### 3.2 Performance Documents

The following documents are required to perform this procedure:

- EPC-CP-QP-1007 Form 1, Unplanned Release Report.
- EPC-CP-QP-1007 Form 2, 7/15 Day Release Report.
- EPC-CP-QP-0903, Environmental Reporting Requirements for Releases.

## 3.3 Special Tools, Equipment, Parts, and Supplies

Ensure the following are available for spill investigations and field visits:

- Personal protective equipment (PPE) as required by each specific site location (e.g., hardhat, safety vest, safety glasses, safety shoes, etc.)
- Cell phone (only government cell phones are allowed in secure areas.) See <u>https://int.lanl.gov/policy/documents/P217.pdf</u> for requirements for using portable electronic devices on Laboratory property.
- EPC-CP Spills Pager **\*Note:** Spills Pager can be configured to forward notifications to a government cell phone and email address.
- External dosimeter (as required by site or facility).
- Field Logbook (maintained to record pertinent information about the spill, i.e., time and date of release, location and source of release, type of material released, quantity of material released, impacted media, time release was stopped, any immediate mitigation actions taken to contain or control the release, time, date and description of notifications, etc.).
- Physical or electronic maps (e.g., utility line locations, Solid Waste Management Unit (SWMU) / Area of Concern (AOC) boundaries, land ownership boundaries).

## 4.0 PERFORMING SPILL INVESTIGATIONS

## 4.1 Notification of a Spill or Unplanned Release

The EPC-CP personnel that conduct spill investigations ensure the immediate mitigation of spills and timely notification to appropriate regulatory organizations in the event of a spill or unplanned discharge that has or may adversely affect the environment. Spills/unplanned releases are typically reported by a designated FOD representative (i.e., operations, maintenance) or DEP. If the spill/unplanned release is an emergency (i.e., unknown chemical, toxic chemical, flammable chemical, large volume), it will be reported to the EOC at 667-2400 and the EOC will contact the spill investigator using the EPC Spill pager. If the spill/unplanned release is not an emergency, (potable water, small volume, non-toxic), it will be reported via the EPC Spill pager (664-7722) or by phone call from the DEP or other designated FOD representative (i.e., operations, maintenance, security, health and safety. The EPC-CP Spill Program maintains an on-call schedule for after-hours support

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for incidents and unplanned releases. This listing is updated every three months with contact information for trained EPC-CP personnel (see Attachment 1). This schedule is submitted electronically to update the Primary On-Call List available through the Laboratory's EMD-EO Organizations.

## Spill Investigator/On Call

- [1] Receive notification of a spill or unplanned release from one of the following:
  - Spill Pager (664-7722) or forwarded cell phone.
  - Emergency Operations Center (667-2400).
  - Phone call from the DEP or other designated FOD representative (i.e., operations, maintenance, security, health and safety).
- [2] Document the following information, at a minimum, in the Spill Logbook:
  - Time, Date, and Location of the spill/unplanned release
  - Owner of Spill and Site Contact
  - Material Spilled
  - Approximate Volume of the Spill/Unplanned Release
  - Source of the Spill
- [3] Request that the EOC identify a safe route to the site/location of the spill or unplanned release.

## CAUTION

Spills or unplanned releases that occur on Department of Energy property from an organization not associated with Triad National Security, LLC (e.g., Los Alamos County, N3B etc.) are the responsibility of that organization. The respective organization is responsible for site remediation, corrective actions, and external reporting requirements.

- [4] If the owner of the spill is not associated with Triad National Security, LLC, refer the caller to one of the following, as appropriate:
  - Los Alamos County (LAC) Department of Public Utilities at 662-8333 for releases discovered during normal work hours from LAC owned equipment or infrastructure.
  - After Hours LAC Call Police Dispatch at 662-8222 for releases outside of normal work hours from LAC owned equipment or infrastructure.
  - N3B Operations Center at 551-2954 for releases from N3B owned equipment or infrastructure.
- [5] If the owner of the spill is associated with Triad National Security, LLC, prepare for a site visit as follows:

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- [a] Based upon location of the spill/unplanned release, determine what access requirements are applicable (i.e., Q/L Clearance, Site Specific Training) (see Section 3.1).
- [b] Based upon the location and material spilled, determine the appropriate PPE for the site visit (e.g., boots, safety glasses, long pants/shirt, hardhat, safety vest).
- [6] If the spill is de Minimis (low volume); of a known material (potable water, sanitary waste; and personnel have the appropriate knowledge/training, instruct the following:
  - [a] The delegated FOD representative, DEP and/or Waste Management Coordinator (WMC) may remediate the spill without the Spill Investigator being present.
  - [b] The designated FOD representative, DEP, and/or WMC must complete an Unplanned Release Report (Attachment 2) and submit a copy of the report to the Spill Investigator for recordkeeping.

## 4.2 Emergency Spill/Unplanned Release - Responding with EMD-EO

The Spill Investigator will respond to emergency spills/unplanned releases when notified. Emergency spills/unplanned releases typically include unknown materials leaking from bins, drums, and containers, hazardous materials (i.e., acid, caustic, fuel), or large volumes of petroleum products (i.e., leaking tanks, tanker truck accidents). Emergency spills/unplanned releases are managed by the EOC. The following provides the steps a Spill Investigator will follow when responding to support the EOC for an emergency spill/unplanned release.

## Spill Investigator/On Call Spill Responder

- [1] Travel to the location of the spill or unplanned release.
- [2] Report to designated Incident Response Coordinator and receive site-specific safety and security briefing.
- [3] Assess and evaluate nature and extent of the release.
- [4] Provide support and guidance to EMD-DO, Hazmat, and Facility personnel on release mitigation measures and requirements. Examples of the types of support and guidance are:
  - [a] Provide the final inspection of the site to ensure that corrective actions were adequate and are complete.
  - [b] Recommend corrective actions.
  - [c] Inspect the site to ensure that the extent of the spill/unplanned release is adequately defined.

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- [d] Recommend how to stabilize the site for further remediation (i.e., secure the site from storm water).
- [e] Identify watercourse boundaries near the spill/unplanned release.
- [f] Determine if samples need to be collected.
- [g] Recommend sample types and analysis.
- [h] Recommend sample locations and the number of samples to determine extent of condition.
- [5] If sample collection is required, have the DEP/WMC contact the waste management organization and complete a Request for Analysis (RFA), <u>http://int.lanl.gov/environment/waste/sampling.shtml</u>, to schedule sampling. Specify the analytical suite and turn-around time needed for the sample in the RFA.
- [6] Document the following information regarding the spill or unplanned release in the Logbook:
  - Timeline of spill/unplanned release response as it occurs.
  - Nature and extent of the spill/unplanned release (i.e., inside a building, on asphalt, nearest watercourse/drainage area, proximity to SWMU/AOC and/or outfalls).
  - Steps taken to contain the spill.
  - Samples collected, if any. Include number, type, location, and analysis.
  - Spill and control equipment used to remediate the spill.
  - Corrective actions completed and the amount of waste material.

## 4.2 Non-Emergency Spill or Unplanned Release

The Spill Investigator will respond to non-emergency spills/unplanned releases when notified. Nonemergency spills/unplanned releases typically include potable water leaks; sanitary wastewater leaks, spills, overflows; and small volumes of known chemicals (e.g., hydraulic fluid leaks, vehicle oil leaks). Non-Emergency Spills/Unplanned Releases are typically handled by a designated FOD representative (i.e., operations, maintenance), DEP, or WMC assigned to the area. The following provides the steps a Spill Investigator will follow when responding a non-emergency spill/unplanned release.

## Spill Investigator/On Call

- [1] Coordinate with the FOD designee and/or waste management coordinator to visit the location of the spill/unplanned release.
- [2] Travel to the location of the spill/unplanned release.

#### CAUTION

The Spill Investigator may respond to the spill or unplanned release and determine whether the containment and remediation is beyond the capability of the designated FOD representative, DEP, and/or WMC to respond. The EOC should be contacted if additional technical expertise or materials are needed to remediate the release.

- [3] Assess and evaluate the nature and extent of the release as follows:
  - [a] If the spill/release is a small volume or known material (e.g., sanitary waste, potable water, small hydraulic leak), proceed to step 4.
  - [b] If the spill/release is an unknown (e.g., leaking fluid from a metal recycling bin, drum, battery, or other container), stop work and notify the EOC at 667-2400.
  - [c] If the spill/release is a hazardous material or large volume of petroleum product (i.e., battery acid, chemical tank, fuel, hydraulic fluid, oil), stop work and notify the EOC at 667-2400.
  - [d] If the spill/release appears to be beyond the capability of the designated FOD representative, DEP, and/or WMC to contain and/or remediate, the Spill Investigator shall stop work and notify the EOC at 667-2400 to obtain the appropriate resources.
- [4] Provide guidance to the FOD designee and/or waste management coordinator regarding the containment and/or cleanup of the release. Examples of the types of guidance provided include the following:
  - [a] Provide the final inspection of the site to ensure that corrective actions were adequate and are complete.
  - [b] Recommend corrective actions.
  - [c] Inspect the site to ensure that the extent of the spill/unplanned release is adequately defined.
  - [d] Recommend how to stabilize the site for further remediation (i.e., secure the site from storm water).
  - [e] Identify watercourse boundaries near the spill/unplanned release.
  - [f] Determine if samples need to be collected.
  - [g] Recommend sample types and analysis.
  - [h] Recommend sample locations and the number of samples to determine extent of condition.
- [5] If sample collection is required, have the DEP/WMC contact WM-SVS and complete a RFA, <u>http://int.lanl.gov/environment/waste/sampling.shtml</u>, to schedule sampling. Specify the analytical suite and turn-around time needed for the sample in the RFA.

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- [6] Document the following information regarding the spill or unplanned release in the Logbook:
  - Timeline of spill/unplanned release response as it occurs.
  - Nature and extent of the spill/unplanned release (i.e., inside a building, on asphalt, nearest watercourse/drainage area, proximity to SWMU/AOC and/or outfalls).
  - Steps taken to contain the spill.
  - Samples collected, if any. Include number, type, location, and analysis.
  - Spill and control equipment used to remediate the spill.
  - Corrective actions completed and the amount of waste material.
- [7] Coordinate and document all required follow up corrective actions with the FOD designees, DEP, and/or WMC.
- [8] Determine the applicable internal and external reporting requirements as outlined in Section 4.3.

## 4.3 Reporting Spills and/or Unplanned Releases

This section describes how to determine whether an unplanned release, spill, or other event needs to be reported under environmental regulations and how to fulfill all immediate reporting requirements (within the first 24-hours).

#### 4.3.1 Immediate Notification

#### Spill Investigator/On Call Spill Responder

- [1] Identify which of the following internal stakeholders that should receive a report of the spill/unplanned release:
  - EPC-CP Group and Division Management
  - Compliance Subject Matter Experts (SME). This includes Resource Conservation and Recovery Act, National Pollution Discharge Elimination System, Storm water, Groundwater, and/or Waste Management compliance personnel that potentially have permit specific reporting requirements.
  - FOD where the spill/unplanned release occurred.
  - Designated FOD Representative (i.e., DEP, Operations, and Maintenance).

## CAUTION

Spills/unplanned releases may have EXTERNAL reporting requirements that must be completed within 15 minutes or 24-hours of discovery based upon EPC-CP-QP-0903, Environmental Reporting Requirements for Releases.

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[2] Identify the verbal and written EXTERNAL reporting requirements in accordance with EPC-CP-QP-0903, Environmental Reporting Requirements for Releases.

## 4.3.2 Non-Reportable Spills/Unplanned Releases

#### Spill Investigator/On Call Spill Responder

- [1] Notify the internal stakeholders (i.e., EPC-CP, SME, FOD, and designated FOD Representative) by phone and/or email (Attachment 1). Include the following pertinent facts as recorded in the logbook:
  - Date, Time, Location of the release.
  - Quantity and type of material.
  - Status of corrective actions.
- [2] Document the spill/unplanned release in the spills database.
- [3] Document spills/unplanned releases that are NOT reportable to an external regulatory agency on EPC-CP-QP-1007-Form 1, Unplanned Release Report (Attachment 2).
  - [a] If the Form 1 is completed by a DEP or other designated FOD representative, request a copy of the signed form.
  - [b] Attach completed EPC-CP-QP-1007-Form 1 to the spill database record.
- [4] Submit copies of the accumulated EPC-CP-QP-1007-Form 1's, (annually), to records in accordance with <u>ADESH-AP-006, Records Management</u>.

## 4.3.3 Reportable Spills/Unplanned Releases

## Spill Investigator/On Call Spill Responder

- [1] Notify the internal stakeholders (i.e., EPC-CP, SME, FOD, and designated FOD Representative) by phone and/or email (Attachment 1). Include the following pertinent facts as recorded in the logbook:
  - [a] Date, Time, Location of the release.
  - [b] Quantity and type of material.
  - [c] Status of corrective actions.
- [2] Notify National Nuclear Safety Administration (NNSA)/Los Alamos Site Office (LASO).
- [3] Perform the required EXTERNAL verbal notifications to the appropriate regulatory agencies (i.e., New Mexico Environment Department [NMED], Environmental Protection Agency [EPA]) in accordance with <u>EPC-CP-QP-0903, Environmental Reporting Requirements for Releases</u>.

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- [4] Document spills/unplanned release on EPC-CP-QP-1007-Form 2, 7/15 Day Release Report (Attachment 3).
  - [a] Ensure that the EPC-CP-QP-1007-Form 2 is reviewed and assigned an LA-UR document release number.
  - [b] Attach the final EPC-CP-QP-1007-Form 2 to the spill database record.
  - [c] Submit the final EPC-CP-QP-1007-Form 2 as an e-mail attachment to the appropriate regulatory agency.
  - [d] Submit a copy of the EPC-CP-QP-1007-Form 2 to the internal stakeholders and NNSA/LASO.
- [5] Document the spill/unplanned release in the spills database.
- [6] Attach completed EPC-CP-QP-1007-Form 2 to the spill data base record.
- [7] Electronically file a copy of the EPC-CP-QP-1007-Form 2 in Spills folder located at ENV(\\dcstorage.lanl.gov):\CP\WQ\WQCC COMP PROG.
- [8] Submit copies of the accumulated EPC-CP-QP-1007-Form 2's, (annually), to records in accordance with <u>ADESH-AP-006, Records Management</u>.

## 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 <u>EPC-CP-PIP-1001, New</u> <u>Mexico Water Quality Control Commission (WQCC) Program Implementation Plan (PIP)</u>. This will include "self-study" (required reading) for this procedure as assigned and documented in accordance with <u>ADESH-TPP-301</u>, <u>ADESH Training Program Plan (TPP)</u>.

#### 6.0 RECORDS

EPC-CP is the Office of Record for this document and must be maintained in accordance with PD1020, Document Control and Records Management and ADESH-AP-006, Records Management Plan. Records generated by this document will be submitted to the Records Management designated point of contact or document manager for document management. The following records are generated by this procedure.

Record Title	QA Record	Non-QA Record
EPC-CP-QP-1007 Form 1, EPC-CP Unplanned Release Report	$\boxtimes$	
EPC-CP-QP-1007 Form 2, EPC-CP 7/15 Day Release Report	$\square$	
Correspondence (i.e., E-mail Notifications to LANL Management, DOE, and other EPC-CP permit subject matter experts)		

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Spill Investigations	Revision: 0	Effective Date: 06/03/2020	

Correspondence - E-mail Submittals of 7/15 Day Release Reports to NMED	$\boxtimes$	
Logbook		

#### 7.0 DEFINITIONS AND ACRONYMS

#### 7.1 Definitions

See LANL *Definition of Terms*.

**Release** – Any unpermitted spilling, leaking, pumping, pouring, emitting, emptying, discharging, injecting, escaping, leaching, dumping, or disposing of contaminants into the environment, excluding: (1) emissions from the engine exhaust of any vehicle, (2) certain releases of source, byproduct, or special nuclear material from a nuclear incident, or (3) normal application of fertilizer.

#### 7.2 Acronyms

#### See LANL Acronym Master List.

AOC	Area of Concern
DEP	Deployed Environmental Professional
EMD-EO	Emergency Management Division -Emergency Operations Group
EOC	Emergency Operations Center
EPC-CP	Environmental Protection and Compliance Group
FOD	Facility Operations Directorate
LAC	Los Alamos County
LANL or the Laboratory	Los Alamos National Laboratory
LASO	Los Alamos Site Office (LASO).
N3B	Newport News Nuclear BWXT Los Alamos
NMED	New Mexico Environment Department
NNSA	National Nuclear Safety Administration
PIP	Program Implementation Plan
PPE	Personal Protective Equipment
SWMU	Solid Waste Management Unit
ТРР	Training Program Plan
WMC	Waste Management Coordinator
WQCC	Water Quality Control Commission
SME	Subject Matter Expert

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#### 8.0 **REFERENCES**

ADESH-AP-006, Records Management Plan

ADESH-TPP-301, ADESH Training Program Plan (TPP)

EPC-CP-PIP-1001, New Mexico Water Quality Control Commission (WQCC) Program Implementation Plan

EPC-CP-QP-0903, Environmental Reporting Requirements for Releases

EPC-DO-QP-100, General Field Safety

P217, Controlled Portable Electronic Devices

#### 9.0 ATTACHMENTS

Attachment 1: Release Notification Phone List

**Attachment 2:** EPC-CP-QP-1007-Form 1, Unplanned Release Report

Attachment 3: EPC-CP-QP-1007-Form 2, 7/15 Day Release Report

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#### **Attachment 1: Release Notification Phone List**

Los Ala	nos National Laboratory	
(1)	Emergency Operations Support Center	(505) 667-2400
(2)	EPC-ES Group Office	(505) 665-8855
(3)	EPC-CP Group Office	(505) 667-0666
(4)	EPC-DO	(505) 667-2211
(5)	EPC-CP Spills Pager	(505) 664-7722
<u>New M</u>	exico Environment Department	
(1)	NMED Emergency Hotline (24 hours a day)	(505) 827-9329
(2)	NMED Non-Emergency Hotline (Voicemail; 24 hours a day)	1 (866) 428-6535
(3)	NMED Surface Water Quality Bureau	(505) 827-0187
	Jennifer Foote	(505) 827-0596
(4)	NMED Ground Water Quality Bureau	(505) 827-2900
	Gerald (Jake) Knutson	(505) 827-2996
	Steve Pullen	(505) 827-2962
(5)	NMED Hazardous Waste Bureau	(505) 476-6000
	Stephen Connolly	(505) 476-6025
<u>U.S Env</u>	ironmental Protection Agency	
(1)	US EPA Region 6 Spill Reporting (During business hours)	1 (800) 887-6063
	Emergencies- Contact the NRC	1 (800) 424-8802
(2)	Nancy Williams	1 (214) 665-7179
Los Ala	mos Fire Department	(505) 662-8301
<u>U.S. De</u>	partment of Energy	
(1)	Karen Armijo	(505) 665-7314
Newpo	rt News Nuclear BWXT Los Alamos (N3B)	
(1)	N3B Operations Center	(505) 551-2954
New M	exico State Police	
New	Mexico State Police	(505) 827-9604
EPC-CP	On-Call Environmental Representative for Release Assessment and	Notifications to External Agencies
(1	) Terrill Lemke	(505) 665-2397 (Office) (505) 699-0725 (Cell)
(2	Steve Pearson	(505) 667-3005 (Office) (505) 699-3684 (Cell)
(3	) Mike Saladen	(505) 665-6085 (Office) (505) 699-1284 (Cell)

(505) 664-0105 (Office) (505) 699-7621 (Cell)

(4) Tim Zimmerly

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# Attachment 2: Unplanned Release Report, EPC-CP-QP-1007-Form 1

		mental C	os National Laborat Compliance Program Ined Release Repor	n (EPC-	CP)			
Form Completed By:	Provide State	Telephone:			Group:	Group:		
Spill Owner Details (Specify):	TRIAD, LLC		iubcontractor:		D Othe	er:		
Date of Spill/Date Spill Discov	vered:	1.1						
Location:								
Material Spilled:								
Hydraulic Fluid			e/coolant		and the second second second			
Potable Water		Steam Con Lubricants			and the second second			
Diesel		1			Other;			
Volume Spilled:			lume Generated:					
Source of Spill:		A 10 10 10 10 10	ble Water Line					
Vehicle ID:			uppression System		Condensate Lin	e		
Equipment ID: Describe the spill response in cl		Fuel 1			Other:			
Did the spill enter or impact any	of the following?		personal data and the second		1			
	or the following.		Floor Drain, if so pl	ease indic	ate affected facility	/		
(Check as many as apply)	Disposal Facility		Floor Drain, if so pl     Watercourse/drain	_		_		
(Check as many as apply)  RCRA Treatment Storage I RCRA Satellite Accumulati	Disposal Facility on Area		Watercourse/drain	age area,	if so please indicat	ė	c Canada	
(Check as many as apply)	Disposal Facility on Area		÷	age area,	if so please indicat	ė	se indicate	
(Check as many as apply)  RCRA Treatment Storage I RCRA Satellite Accumulati RCRA <90 Day Storage Are	Disposal Facility on Area		Watercourse/drain	age area,	if so please indicat	ė	se indicate	
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Check as many as apply)	Disposal Facility on Area ea <b>utside a building?</b>		Watercourse/drain Solid Waste Manag None Outside	age area, gement Ur Asphalt Graveler	if so please indicat hit/Area of Concerr	ė	se indicate	
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(Check as many as apply)         RCRA Treatment Storage I         RCRA Satellite Accumulati         RCRA Satellite Accumulation         NPDES MSGP Facility         Did the spill occur inside or o         Did the spill occur on:         (Check as many as apply)         Samples Collected:         None         Water         Certification         certify that I am knowledgeal:         Name of Certifying Official:         Certification:	Disposal Facility on Area ea <b>Futside a building?</b> Concrete Carpeted F Tile Tile Vooden Fl Soil Air Other: ple about the information	iloor loor/Deck	Watercourse/drain Solid Waste Manag None Outside I I I I I I I I I I I I I I I I I I I	Asphalt Gravelec Soil/Veg Other:	if so please indicat hit/Area of Concerr d/Rocky Area etated Area re collected, indicat	te analytica ue, accurat	I suite: te, and complete	
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# Attachment 3: 7/15 Day Release Report, EPC-CP-QP-1007-Form 2

	A DISCHAR	ATORY LA-UR-		Calendar Year
NPDES or Operational Spill/Rel ER Spill/Rel Other Spill/Rel	lease 🗌 🛛 –Indicate	e with "X" in appropria	te box.	Release ID Number:
Responsible Facility/User Group Contact Person Phone # Release/Discharge Location:	:	C4	Pager #:	
TA: Building: The release/discharge is associated Init (SWMU), indicate the site/unit nur NPDES Outfall: PRS: Indicate with "X" in appropriate box(e Relationship of the Discharge to a SW	mber and its relations SWMU: PRS/ es).			I Waste Management
Discharge Discharge Discharge Cleanup Cleanup Started:	Discharge Discovered:	Date & Time Cleanup Completed:	Discharge Stopped: Date & Time	Date & Time
laterial(s) Released / Discharged:	Date & Time		Date & fime	

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Release/Discharge Mit	igation Method:					
Weather Conditions:						
Duration of Relea Discharge, in HOU		Est. Volume relea	ased,in gallons:	Est. V	olume Recovered in gallon	
Corrective Actions Tak	en (ie, type of BMI	Ps, etc):				
learest Watercourse ( the release/discharg		Course describe the	astimated sur	fare area affert	ted presence of	
elease/discharge now						
epth to Groundwater, istance to Nearest Dr	inking Water Well,			Well		
	24-HOUR F Contact Perso	RELEASE / DISC		OTIFICATIO Fax	NS Date & Time (or C	comment)
EPA:						,
NMED/SWQB:						
NMED/GWQB:					I	
NMED/HRMB:						
NMED/DOE-OB:						
EPC-CP:						
DOE:						
OTHER:						
OTHER:						
Comments:			L			
Form Completed By:	Г	]				

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7 DAY RELEASE / D	ISCHARGE ACTIONS
7 Day Notice 7 Day Notice Date:	7 Day Notice By:
Comments:	
15 DAY RELEASE / L	DISCHARGE ACTIONS
15 day Follow-up Due:	15-day Follow-Up By:
Comments:	
NMED 30 DAY APPRO	VAL / DISAPPROVAL
NMED 30 Day Response Date:	
Comments:	
Peter Maggiore, Acting Assistant Manager National Security Missions	Jennifer Payne, EPC Division Director Triad National Security, LLC.
Los Alamos Field Office	Los Alamos National Laboratory
3747 West Jemez Road MS-A316	P.O. Box 1663, MS K404
Los Alamos, New Mexico 87544 (505) 606-0397	Los Alamos, New Mexico 87544 (505) 667-2211

EPC-CP-QP-1007 Form 2

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

	EPC-CP-QP-2110			
Effective Date: 01/07/2020		Next Review	Date: 01/07/2023	EST.1943
Environmen	it, Safety, He	alth, Quality	, Safeguards, and S	ecurity Directorate
Environmen	t Protection	and Complia	nce – Compliance	Programs Group
Quality Proc		•		
Quanty 1100				
	•	- 11 - 1		
MSGP	Stormwat			Plan Preparation
		and M	aintenance	
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:				
		Document Autho	r/Subject Matter Expert:	
Name:		Organization:	Signature:	Date:
Name: Holly L. Wheeler		Organization: EPC-CP	Signature: Signature on File	Date: 1-6-2020
		_	Ū.	
		_	Signature on File	
		EPC-CP	Signature on File	
Holly L. Wheeler		EPC-CP	Signature on File Unclassified or	1-6-2020
Holly L. Wheeler		EPC-CP e Classifier: Organization: EPC-CP	Signature on File Unclassified or Signature: Signature on File	1-6-2020
Holly L. Wheeler		EPC-CP e Classifier: Organization: EPC-CP	Signature on File Unclassified or Signature:	1-6-2020
Holly L. Wheeler Name: Steven E. Wolfel	Derivativ	EPC-CP e Classifier: Organization: EPC-CP Approv	Signature on File Unclassified or Signature: Signature on File val Signatures:	      
Holly L. Wheeler Name: Steven E. Wolfel EPC-CP Reviewer:	Derivativ	EPC-CP e Classifier:  Organization: EPC-CP Approv Organization:	Signature on File Unclassified or Signature: Signature on File Val Signatures: Signature: Signature:	1-6-2020  Date: 1-6-2020 Date:

MSGP Stormwater Pollution Prevention Plan Preparation and	No: EPC-CP-QP-2110	Page 2 of 72
Maintenance	Revision: 0	Effective Date: 01/07/2020

#### **REVISION HISTORY**

<b>Document Number and Revision</b> [Include revision number, beginning	Effective Date [Document Control Coordinator inserts	Description of Changes
with Revision 0]	effective date]	[List specific changes made since the previous revision]
EPC-CP-QP-2110, Rev. 0	01/07/2020	New document

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## 1.0 INTRODUCTION

The Environmental Protection Agency (EPA) National Pollutant Discharge Elimination System (NPDES) Multi-Sector General Permit (MSGP), also referred to as the Permit, contains specific requirements for industrial activities of Los Alamos National Laboratory (LANL) covered by the permit. One requirement is the preparation, maintenance, and routine revision of a Stormwater Pollution Prevention Plan (SWPPP).

## 1.1 Purpose

Active MSGP facilities must be included in a SWPPP. The SWPPP is intended to document the selection, design, and installation of control measures to meet permit effluent limits. Additional documentation required by the Permit is to be kept with the SWPPP (including inspection maintenance, monitoring, and corrective action) and is intended to document the implementation of permit requirements.

## 1.2 Scope

This procedure contains information and specific steps for preparing a SWPPP, and identifying and documenting conditions in order to meet Permit requirements. Part 5 of the Permit contains specific requirements for developing, maintaining, and revising a SWPPP for facilities with stormwater discharge associated with industrial activities permitted under an MSGP. Part 5.5 describes the additional documentation required to be kept with the SWPPP.

## 1.3 Applicability

This procedure applies to Environmental Protection and Compliance-Compliance Programs (EPC-CP) technical staff, Deployed Environmental Professionals (DEPs), and subcontractor personnel (as applicable) who develop and maintain SWPPPs at MSGP regulated LANL facilities operated by Triad, LLC.

## 2.0 PRECAUTIONS AND LIMITATIONS

The hazard rating for the activities described in this procedure is <u>LOW</u> and does not require an Integrated Work Document.

## 3.0 PREPARING AN MSGP STORMWATER POLLUTION PREVENTION PLAN

Part 5 of the Permit contains the specific requirements for developing, maintaining, and revising a SWPPP. At a minimum, the SWPPP must contain the following elements:

- Stormwater pollution prevention team (Stormwater PPT);
- Site description (including a site map);
- Summary of potential pollutant sources;
- Description of control measures;

- Schedules and procedures;
- Documentation to support eligibility considerations under other federal laws; and
- Signature requirements.

Where the SWPPP refers to procedures in other facility documents, such as a Spill Prevention, Control and Countermeasure Plan or an Environmental Management System, copies of the relevant portions of those documents must be kept with the SWPPP.

The template provided in Attachment 1, EPC-CP-QP-2110 R0 Form 1, *MSGP SWPPP Template Example* contains the elements required in a LANL MSGP SWPPP. Contact the MSGP Program Lead for questions regarding content.

## **3.1** Gathering Information for the SWPPP

## **SWPPP Preparer**

- [1] Contact the MSGP Program Lead for a copy of the most current SWPPP template.
- [2] Obtain a copy of the previous year's SWPPP for reference (if one is available).
- [3] Review the SWPPP template.
  - [a] Identify information that will need to be included in the SWPPP (e.g., MSGP sector, operational areas, Pollution Prevention Team member names, etc.).
  - [b] Identify documents that will need to be attached to the SWPPP (e.g., certifications, memorandums, maps, data summaries, endangered species reports, etc.).
- [4] Identify documents and/or reports that are provided by EPC-CP.
  - [a] Contact the MSGP Program Lead with a request for needed information.
- [5] Obtain maps as specified in the SWPPP template.
  - [a] Request a new map or update to existing map from the MSGP Program Lead.
  - [b] Provide a draft or map markup with information as required in the Permit.

## 3.2 Preparing the SWPPP

## SWPPP Preparer

- [1] Use a copy of the most current SWPPP template.
- [2] Add information to the relevant sections.
- [3] Text highlighted in yellow indicate areas to be replaced with facility specific information.

- [a] <u>IF</u> text is part of an instruction (e.g., <u>Insert site description text here.</u>)
   THEN delete the entire line and replace with the appropriate information.
- [b] <u>IF</u> text is embedded as part of the line, <u>THEN</u> replace just the yellow highlighted text with appropriate information (e.g., delete <u>Sector XX-(Insert Sector Title)</u> and replace with <u>Sector P – Land</u> <u>Transportation & Warehousing</u>).
- [4] Delete attachments that are not applicable to the active facility specific SWPPP.
- [5] Attach other documentation (e.g., Spill Prevention, Control and Countermeasure Plan, Environmental Management System, copies of relevant portions of documents) as necessary.
- [6] Send the draft SWPPP to the EPC-CP MSGP Program Lead and request a review.

**NOTE 1:** The EPC-CP MSGP Program Lead may delegate the review to personnel in the Storm Water Permitting/Compliance Team.

#### **MSGP** Program Lead or Designee

- [7] Review the SWPPP to ensure information required by the Permit is included.
  - [a] Encourage the use of the *MSGP SWPPP Review Guidance Checklist* as a best management practice to cross-check SWPPP content with the Permit. See checklist example in Attachment 2.
  - [b] Provide comments to the SWPPP Preparer.

#### **SWPPP Preparer**

- [8] The Preparer must resolve review comments with the MSGP Program Lead.
- [9] Obtain the signature of a duly authorized representative (refer to Appendix B, Subsection 11 of the Permit) on the certification statements associated with the SWPPP and attachments (refer to Attachment 9 of the *MSGP SWPPP Template* Example).
  - **NOTE 2:** The Review & Approval System for Scientific and Technical Information (RASSTI) system requires upload of only PDF documents. It is highly recommended that all final certifications obtained contain a written signature rather than electronic signature. The RASSTI system adds a cover page to the document containing the LA-UR number, which obviates all electronic signatures due to the document change.

#### 4.0 MAINTAINING THE MSGP SWPPP

#### 4.1 Availability of the MSGP SWPPP

A complete copy of the current SWPPP is required to be kept at the active facility in an accessible format. The SWPPP must be immediately available to facility employees, EPA, and other entities identified in the Permit. The SWPPP must also be made available to the public. LANL meets this requirement by posting SWPPPs to the Public Reading Room internet web page. Refer to Part 5.4 of the Permit for more information.

#### **SWPPP Preparer**

- [1] Submit the final certified SWPPP in PDF format to the RASSTI system at *rassti.lanl.gov*.
  - [a] The SWPPP must be identified as Los Alamos Unlimited Release, or LA-UR, to be posted to the Public Reading Room.
  - [b] Identify a derivative classifier to review the document.
  - [c] Identify the document for a **full classification review**. The Designated Unclassified Subject Area, or DUSA, system may **NOT** be used.
  - [d] Identify a line manager for an approval signature.
  - [e] Identify the document for release to Public Reading Room.
- [2] Add the cover page containing the LA-UR number generated by the RASSTI system to the SWPPP.
- [3] Contact the RASSTI staff for questions and assistance using this system.

#### 4.2 Additional Documentation Requirements

The Permit requires additional documentation to be kept with the SWPPP that together keep records complete and up-to-date, and demonstrate full compliance with the conditions of the Permit. Some documents may be generated when a SWPPP is first written (e.g., copy of the permit). Other documents may be generated on an ongoing basis throughout a calendar year (e.g., inspections). Refer to Part 5.5 of the Permit for additional information.

#### **SWPPP Preparer or Owner**

[1] IF any of the following documents are generated,

<u>THEN</u> 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 control measures (refer to Part 2.1.2.3 of the Permit);
- All inspections, including Routine Facility Inspections and Quarterly Visual Assessments (refer to Parts 3.1.2 and 3.2.2 of the Permit);
- Description of any deviations from the schedule for visual assessments and/or monitoring, and the reason for the deviations (refer to Parts 3.2.3 and 6.1.5 of the Permit);
- Corrective action documentation (refer to Part 4.4 of the Permit);
- Documentation of any benchmark exceedances and the type of response to the exceedance employed;
- Documentation to support any determination that pollutants of concern are not expected to be present above natural background levels if stormwater is discharged directly to impaired waters; and
- Documentation to support any claim that the facility has changed its status from active to inactive and unstaffed.

## 5.0 REVISING THE MSGP SWPPP

The Permit specifies conditions that trigger a SWPPP review to ensure numeric and non-numeric effluent limits are met and to determine if modifications to stormwater controls are necessary (refer to Parts 4.1 and 4.2 of the Permit).

The SWPPP must also be modified based on corrective actions and deadlines required under Part 4.3 of the Permit, and documented in accordance with Part 4.4 of the Permit.

At a minimum, the SWPPP must be reviewed and revised once per calendar year, and no later than 45 days after conducting the final routine facility inspection for the year.

#### **SWPPP Preparer or Owner**

- [1] The Stormwater PPT will review the SWPPP for the following at a minimum.
  - The selection, design, installation, and implementation of control measures.
    - Sources of pollution.

- Spill and leak procedures.
- Non-stormwater discharges (as applicable).
- [2] <u>IF</u> any of the following conditions occur or are detected during an inspection, monitoring or other means,

THEN the Stormwater PPT must **immediately** review the SWPPP as specified above.

- Unauthorized release or discharge (e.g., spill, leak, discharge of non-stormwater not authorized by the permit);
- A discharge violates a numeric effluent limit (refer to Table 2-1 of the Permit);
- Controls measures are not stringent enough for discharge to meet applicable water quality standards or the non-numeric effluent limits in the permit;
- A required control measure was never installed, installed incorrectly, or not in accordance with Parts 2 and/or 8, or is not properly operated or maintained;
- Whenever a visual assessment shows evidence of stormwater pollution (e.g., foam, oil sheen, etc.).
- Construction or a change in design, operation, or maintenance at the facility that significantly changes the nature of pollutants discharged in stormwater from the facility, or significantly increases the quantity of pollutants discharged;
  - **NOTE 1:** Changes include building removal or replacement, BMP removal or installation, outfall removal or creating a new outfall, changing drainage pathways or the path of stormwater flow.
- The average of four quarterly sampling results exceeds an applicable benchmark.
  - **NOTE 2:** If less than four benchmark samples have been taken, but the results are such that an exceedance of the four quarter average is mathematically certain this is considered a benchmark exceedance.
- [3] The Stormwater PPT must determine the modification(s) to be made to implement or maintain control measures and/or take corrective action.
- [4] The revision/modification(s) will be implemented at the facility.
- [5] The SWPPP will be revised/modified within 14 days of completion of a modification or corrective action to reflect the modification(s) made.
- [6] Obtain a signature and date from a duly authorized representative on all SWPPP revisions/modifications in accordance with Appendix B, Subsection 11 of the Permit.

#### 6.0 TRAINING

The following personnel require training before implementing this procedure.

- Deployed Environment, Safety, and Health Group and Team Leaders
- EPC-CP MSGP stormwater compliance personnel
- DEPs
- Other LANL or subcontract personnel identified as being required to prepare and maintain MSGP SWPPPs as part of their job duties

All EPC-CP personnel that execute the activities specified in this procedure must meet the minimum qualification and training requirements for their position as identified EPC-CP-PIP-2101, NPDES Multi-Sector General Permit Program. This will include "self-study" (required reading) for this procedure as assigned and documented in accordance with ADSH-TPP-301, *ADESH Training Program Plan*. Other participating LANL groups may require training documentation pursuant to local procedures.

Contract personnel that execute the activities specified in this procedure will be qualified and trained as required by the Exhibit D and Exhibit F. In addition, contract personnel will be required to complete "self-study" (required reading) of this procedure.

## 7.0 RECORDS

MSGP SWPPPs are signed and certified by a duly authorized representative of the individual facilities. These completed documents are maintained at the permitted facility, managed by the facility's Records Management designated point-of-contact or document manager, and posted to the LANL public reading room. The MSGP team may retain a copy for reference purposes.

Below, are records generated as a result of implementing this procedure. Records generated are identified by title and type.

Record Title	QA Record	Non-QA Record
Stormwater Pollution Prevention Plan	$\square$	
MSGP SWPPP Review Guidance Checklist	N/A	N/A

## 8.0 DEFINITIONS AND ACRONYMS

#### 8.1 Definitions

See LANL *Definition of Terms*.

**Best Management Practice (BMP)** – Schedules of activities, prohibitions of practices, maintenance procedures, and other management practices to prevent or reduce the pollution of "waters of the United States." BMPs also include treatment requirements, operating procedures, and practices to control plant site runoff, spillage or leaks, sludge or waste disposal, or drainage from raw material storage (40 CFR Part 122.2).

**Control Measure** – Any BMP or other method (including effluent limitations) used to prevent or reduce the discharge of pollutants to waters of the United States.

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## 8.2 Acronyms

See LANL Acronym Master List.

EPA	Environmental Protection Agency
EPC-CP	Environmental Protection and Compliance-Compliance Programs
DEP	Deployed Environmental Professional
DUSA	Designated Unclassified Subject Area
LANL or the Laboratory	Los Alamos National Laboratory
LA UR	Los Alamos Unlimited Release
MSGP or Permit	Multi-Sector General Permit
NPDES	National Pollutant Discharge Elimination System
NOI	Notice of Intent to Discharge
SWPPP	Stormwater Pollution Prevention Plan
PDF	Portable Document Format
РРТ	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)

Federal Register, Final National Pollutant Discharge Elimination System (NPDES) General Permit for Stormwater Discharges from Industrial Activities. Federal Register: June 16, 2015, Volume 80, Number 115

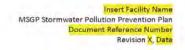
Clean Water Act, Title 33 U.S.C. 1251

#### **10.0 ATTACHMENTS**

**Attachment 1:** EPC-CP-QP-2110 R0 Form 1, *MSGP SWPPP Template* Example **Attachment 2:** *MSGP SWPPP Review Guidance Checklist* Example

## Attachment 1: EPC-CP-QP-2110 R0 Form 1, MSGP SWPPP Template Example

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# **MSGP Stormwater Pollution Prevention Plan**

# **Insert Facility Name**

Triad National Security, LLC Los Alamos National Laboratory

XX/XX/XXXX

Revision X

## Attachment 1: EPC-CP-QP-2110 R0 Form 1, MSGP SWPPP Template Example (cont.)

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Insert Facility Name

# Attachment 1: EPC-CP-QP-2110 R0 Form 1, MSGP SWPPP Template Example (cont.)

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Insert Name of Facility STORMWATER POLLUTION PREVENTION PLAN

#### PREFACE

This Stormwater Pollution Prevention Plan (SWPPP) was developed in accordance with the provisions of the Clean Water Act (33 U.S.C. §§1251 et seq., as amended), and the United States Environmental Protection Agency (EPA) National Pollutant Discharge Elimination System (NPDES) Multi-Sector General Permit for Stormwater Discharges Associated with Industrial Activity (MSGP) (U.S. EPA, June 2015) issued by EPA. The SWPPP uses the industry specific permit requirements for Sector XX-(Insert Sector Title) as a guide. The applicable stormwater discharge permit is EPA General Permit Identification Tracking Number NMR050013 [Triad National Security, LLC (Triad)]. Click here to view contents of the 2015 Multi-Sector General Permit.

This SWPPP applies to discharges of stormwater from the operational areas of (List the operational areas) at Los Alamos National Laboratory. Los Alamos National Laboratory (also referred to as LANL or the "Laboratory") is owned by the Department of Energy (DOE), and is operated by Triad. Throughout this document, the term "facility" refers to (Insert facility name). The current MSGP expires at midnight on June 4, 2020.

#### 1.0 FACILITY DESCRIPTION

#### 1.1 Facility Information

Name of Facility: (Insert facility name e.g Street: P.O. Box 1663		
City: Los Alamos	State: NM	1 ZIP Code: 87545
County: Los Alamos		1
NPDES ID (i.e., permit tracking number):	NMR050013	
Primary Industrial Activity SIC code, and S SIC <mark>XXXX, Sector X, Subsector XX</mark>	iector and Subsector (201	5 MSGP, Appendix D and Part 8):
Estimated area of industrial activity at site	e exposed to stormwater:	XX acres
Discharge Information		
Name(s) of surface water(s)/segment tha (Sigma Canyon to NPDES outfall 001). Not (within LANL)". Note: For Asphalt Batch P "Mortandad Canyon (within LANL)."	te: For Roads and Grounds	s also add "and Mortandad Canyon
Does this facility discharge industrial stori (see definition in 2015 MSGP, Appendix A		egment of an "impaired water" No

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## Attachment 1: EPC-CP-QP-2110 R0 Form 1, MSGP SWPPP Template Example (cont.)

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insert Facility Name MSGP Stormwater Poliution Prevention Plan Document Reference Number Revision %, Date

Pollutants causing the impairment (see above) that may be present in industrial stormwater discharges from this Facility:

 Are any of your stormwater discharges subject to effluent limitation guidelines (ELGs) (2015 MSGP

 Table 1-1)?
 □Yes

If Yes, which guidelines apply? (Note: Asphalt Batch Plant is subject to ELGs) Not applicable.

#### 1.2 Stormwater Pollution Prevention Team (PPT)

#### Insert a description of the team

The specific duties of individual team members of the PPT are listed in the table below.

Staff Names	Individual Responsibilities
Group Leader: Name Title, Organization	Responsible for the management of all environmental, safety, health, and quality programs for the yards, buildings and facilities within this Plan. This includes performing oversight and periodic walk downs to ensure implementation of the requirements of the MSGP and this SWPPP including overseeing the assigned duties of other PPT members. The Group Leader is responsible for ensuring problems noted during inspections are corrected. The Group Leader must also ensure adequate resources are obtained to ensure compliance requirements of the MSGP and this SWPPP are met.
Deployed Environmental Professional (DEP): Name Title, Organization	Responsible for the management of all environmental programs and issues for the yards, buildings and facilities listed within this Plan. The DEP is responsible for training, recordkeeping, and SWPPP revision. The DEP ensures documentation of inspections and other required MSGP records relative to the SWPPP are managed in accordance with the Permit and established document control procedures and that the SWPPP is kept current. The DEP provides technical and regulatory support to facility and operations personnel regarding implementation of the MSGP and this SWPPP. Lastly, the DEP conducts routine facility inspections and if necessary, visual assessments, in accordance with the Permit. Identified conditions requiring corrective actions from routine facility inspections are entered into the Environmental Protection and Compliance-Compliance Programs (EPC-CP) Corrective Action Report (CAR) database. The DEP is responsible for tracking and updating the status of corrective actions that cannot be implemented immediately.
Facility Operations Division (FOD) Manager: Name Title, Organization	Responsible for managing the maintenance and operation of all aspects of the yards, buildings and facilities listed within this Plan. The manager shall provide review and ensure coordination with core personnel and the PPT, as appropriate, when tenants within

Insert Facility Name

MSGP Stormwater Pollution Prevention Plan

## Attachment 1: EPC-CP-QP-2110 R0 Form 1, *MSGP SWPPP Template Example* (cont.)

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	Revision X, D the FOD propose new processes, operations, features, or a new site that may be subject to the MSGP.
EPC Core: Name Title, Organization	The MSGP Program Lead is responsible for managing and administering the MSGP Program for all industrial facilities operated by Triad within Los Alamos National Laboratory. The MSGP Program Lead advises and provides guidance to facility or operations personnel on NPDES MSGP regulations/requirements. The Program Lead also acts as the institutional point of contact for all interactions with the regulatory authority (EPA) and supervises personnel implementing stormwater monitoring requirements for the facility.
Operations Manager(s): Name Title, Organization	Responsible for day-to-day operations at the facility. Assists the DEP and EPC with inspections; spill reporting; implementing, installing and maintaining storm water controls (also known as Best Management Practices) (BMPs); and providing documentation as requested by other team members. The Operations Manager is key to ensuring adequate communication and coordination of issues regarding implementation of the MSGP and this Plan. Operations Managers also assist the DEP/EPC with SWPPP training and/or briefings, as requested.

#### 1.3 Site Description

Insert text with site description. Include information on type of operation(s), industrial operating equipment (associated with the Asphalt Batch Plant and the TA-3-22 Power and Steam Plant), main structures, activities, outfalls, and substantially identical outfalls.

#### 1.4 General Location Map

The general location map for the facility can be found in Figure A. Figure B-X (if you have more than one site map, list them all here) contains all site maps and identifies all receiving waters associated with stormwater discharges from the facility. X percent of the site flows to (Insert canyon name). The canyon at this location is a (Insert stream type e.g., perennial, ephemeral, intermittent) and eventually flows to the Rio Grande approximately X miles southeast of the site.

#### 1.5 Site Map

The site map is provided as Figure B-X (if you have more than one site map, list them all here) and illustrates the facility's activities: including facility boundary, structures, impervious surfaces, industrial activity areas, spills, operational areas, drainage patterns, stormwater controls, monitoring locations, outfalls and nearby receiving streams.

As required by the 2015 MSGP, the following information specific to the facility is either shown on the site map or contained with additional information provided in this SWPPP.

- Site boundaries and acreage. The site covers approximately X acres.
- Significant structures and impervious surfaces. The site is X percent impervious, primarily structures and paved lots.

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Insert Facility Name MSGP Stormwater Pollution Prevention Plan Document Reference Number Revision X, Date

- Direction of stormwater flow and site drainage. Direction of flow is indicated with arrows.
- Locations of stormwater control measures.
- Locations of all receiving waters. In the immediate vicinity of the facility, (Indicate if any of the waters are Impaired and, if so, whether the waters have TMDLs established for them. See paragraph below this list). Also, indicate if the receiving water includes a wetland. A map of nearby receiving waters is provided as Figure B-X.
- Locations of all stormwater conveyances. This includes all ditches, pipes, and swales.
- Locations of potential pollutant sources.
- Locations of significant spills or leaks.
- Locations of all stormwater monitoring points.
- Locations of stormwater inlets and outfalls. Of which each will require a unique identification code for each outfall (e.g., Outfall 005, etc.), indicating if you are treating one or more outfalls as "substantially identical" and an approximate outline of the areas draining to each outfall.
- This facility is not associated with a municipal separate storm sewer system (MS4).
- Areas of designated critical habitat for endangered or threatened species. There are (Insert "no areas" or a number of areas) in the direct vicinity of the facility. However, a map for threatened and endangered species within LANL property is included as Figure B-X.
- Locations of the following activities where such activities are exposed to precipitation:
  - Insert all facility activities exposed to stormwater (e.g., fueling locations; loading/unloading areas; locations used for the treatment, storage, or disposal of wastes; liquid storage tanks; processing and storage areas; machinery; location and sources of run-on to the site; transfer areas for substances in bulk; immediate access roads used or traveled by carriers of raw materials, manufactured products, waste material, or by-products used or created by the facility; and vehicle and equipment maintenance and/or cleaning areas. Only include the activity areas specific to the facility (for example, if you do not refuel within the active facility boundary, do not include "fueling locations" in this bulleted list). Use a secondary bullet list level in this section.

#### 2.0 POTENTIAL POLLUTANT SOURCES

Industrial activities that could potentially result in releases to the environment are summarized in 2.1 below. The site map for the facility is provided in Figure B-1.

Insert text describing structures and industrial activities that could potentially result in a release to the environment. Include information on location (e.g. inside, outside), associated containment, protection (e.g., roofed areas or coverings), and other devices or practices to prevent or contain spills, prevent runon 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

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Insert Facility Name MSGP Stormwater Pollution Prevention Plan Document Reference Number Revision X, Date

Insert information on spill and leak history at the facility, if any. Text may be in table format as shown below.

Outfall(s) Affected
Allected

Insert information on areas where spills and leaks could occur at the facility. Text may be in table format as shown below.

Outfall(s) Affected

In the event of any future spill or leak at any of the facility areas, a spill report, documenting the occurrence and the nature of the spill or leak, will be completed. The spill report will be filed promptly upon completion and documentation of the spill clean-up, and will be summarized in this section of the SWPPP. In addition, spills within MSGP facility boundaries will be entered as conditions requiring corrective action in the MSGP CAR database and will be updated as corrective action occurs, in accordance with EPC-CP-QP-022, *MSGP Corrective Actions*.

The probability of spills or releases at the facility is minimized by (Insert information on how the facility will minimize spills and leaks).

#### 2.3 Unauthorized Non-Stormwater Discharges

Insert information describing any NPDES permitted non-stormwater discharges, unpermitted outfalls, or unauthorized discharges associated with the facility. Describe any potential sources of non-stormwater discharges (e.g., testing of fire hydrants) and where wastewater drains to. Include a reference to the "Non-Stormwater Discharge Assessment and Certification" and indicate that it is provided in Attachment 3.

#### 2.4 Salt Storage

Insert text describing salt storage areas at the facility, if present. If none exists, state salt is not stored at the facility.

#### 2.5 Historical Data Summary

The following tables provide monitoring data at the facility for the past X years.

Permitted Facility: (insert facility name)

Calendar Year XXXX

Contact MSGP Program Lead to obtain this information formatted for insertion.

Note: This information will be updated every year during the annual SWPPP update, to include the 3 most current years of monitoring data.

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#### 3.0 STORMWATER CONTROL MEASURES

Control measures at the facility are designed to minimize the potential release of pollutants that could adversely affect water quality. Insert text with stormwater control measure information.

#### 3.1 Non-Numeric Technology-Based Effluent Limits

Insert text with non-numeric technology-based effluent limits information. Note: This is specific to Sectors A, AA, N, O and P.

#### 3.1.1 Minimize Exposure

Insert text describing all structural controls (structures or covers) or practices used to minimize the exposure of industrial activities to precipitation. The SWPPP must describe where the controls or practices are being implemented at the facility. Examples of exposure-minimizing control measures include: location and extent of grading, berms, curbs used to contain contaminated stormwater or divert it around areas of industrial activity, materials stored within secondary containment, location of spill cleanup kits, schedule for employee spill abatement and cleanup training, procedure or practices for storage of leaky vehicles and equipment.

#### 3.1.2 Good Housekeeping

Good housekeeping practices specifically applicable to the prevention of stormwater contamination include the following measures: Insert text describing any practices implemented to keep exposed areas at the facility clean. Describe where each practice is being implemented at the facility. Examples of good housekeeping control measures include how workspaces are maintained; routine inspections of heavy equipment, other equipment and waste containers; inspections of material storage areas; identifying specific personnel/positions responsible for empting drip pans, etc. Refer to Section 4.1 of this document for specific schedules for waste and recyclable material pickup and sweeping.

All site areas exposed to precipitation are walked down during daily operations and monthly routine facility inspections to ensure that the grounds are kept in an orderly condition. The outdoor metal storage areas are inspected to ensure all piping and metal raw material is off the ground on storage racks and covered, or stored inside buildings, sheds or transportable containers. Vehicle and forklift parking areas are inspected for leaks or spills as well as storage areas containing oil-filled equipment. The entire site, including loading areas and outfalls, are inspected for floatable debris, garbage, waste and all other potential pollutants. All dumpsters and roll-off bins are inspected to ensure they are closed.

#### 3.1.3 Maintenance

Control measures at the facility will be kept in effective operating condition by the implementation of scheduled preventive maintenance, standard operating procedures (SOPs), engineering guidance, and manufacturer's specifications as applicable. If control measures need to be replaced or repaired to maintain compliance with the 2015 MSGP, necessary modifications will be made according to the timelines specified in the *Corrective Action and Deadlines* requirements of Section 6.0 of this SWPPP.

Deficient items identified during routine facility inspections, walk-downs, or by any other means of identification, will be documented on the routine facility inspection forms and entered into the MSGP CAR database. The condition requiring corrective action will remain open until proper maintenance or



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Insert Facility Name MSGP Stormwater Pollution Prevention Plan Document Reference Number Revision & Date

corrective action has been completed. CAR information, along with documentation of maintenance/repair of control measures, is in Attachment 9 of the SWPPP.

Insert text identifying how industrial equipment is maintained to avoid leaks or other releases. Also, include information on how site-specific control measures are maintained to ensure effective operating condition.

3.1.4 Spill Prevention and Response

Spills, leaks, or other releases will be prevented and minimized by (insert information on how the facility prevents and minimizes unauthorized releases).

#### Insert text describing the general facility approach to spill cleanup.

All spills or releases are reported to EPC-CP by using the spills pager (505) 664-7722. Although incidental spills may be cleaned up by facility personnel, all emergency spills or releases are reported to Emergency Management Division-Emergency Response (EMD-ER) and/or the Facility Duty Officer by calling 667-2400. If fire or explosion is present, or if the potential for such exists, the situation must be reported by dialing 911 from a non-cellular phone or by activating a fire pull box. In the event of a spill, EMD-ER will coordinate appropriate cleanup procedures and EPC-CP will notify the individuals or organizations responsible for completing spill reports and providing information needed to fulfill regulatory reporting requirements.

Unauthorized releases or discharges within industrial facility boundaries are entered into the MSGP Corrective Action Reporting database in accordance with EPC-CP-QP-022, *MSGP Corrective Actions*. In addition, the completion of an Unplanned Release Report is required in the event of a spill. The report will be submitted to EPC-CP personnel and handled according to internal spill record keeping procedures. Spills may be "reportable" (requiring external agency notification) depending on the nature of the spilled material and the location of the release. External agency notification may consist of verbal and/or written notification to the National Response Center, Environmental Protection Agency Region VI, or the New Mexico Environment Department (NMED). EMD-ER, the FOD and EPC-CP, in accordance with Laboratory and DOE policies and federal and state regulatory reporting requirements, will make the determination for the type of reporting required. EPC-DO-QP-101, *Environmental Reporting Requirements for Releases or Events* is used for this purpose (see Attachment 21).

Copies of internal spill reports are maintained by the responsible organization and in the EPC-CP database. The EPC-CP procedure for spill reporting and response, ENV-CP-QP-007, *Spill Investigations*, can be found in Attachment 22 of this SWPPP.

#### 3.1.5 Erosion and Sediment Control

Insert text describing how erosion at the facility and sediment transport off the facility is prevented/minimized. Erosion control measures that prevent soil or sediment from becoming mobilized should be used as the primary line of defense. Sediment control measures that trap, infiltrate, or settle out mobilized sediments, should be used to back-up the erosion control measures.

#### 3.1.6 Management of Runoff

Insert text describing how the facility manages stormwater runoff. This will include a description of controls used to divert, infiltrate, reuse, contain, or otherwise reduce stormwater runoff. Installed or utilized control measures may be listed with a description of their function at the facility.

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nsert Facility Name MSGP Stormwater Pollution Prevention Plan Document Reference Nu Revision X. Date

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.

#### Numeric Effluent Limitations Based on Effluent Limitations Guidelines 3.2

Insert information identifying the facility as meeting or not meeting the industrial category requirements for effluent monitoring as listed in Part 2.1.3 (Table 2-1 Applicable Effluent Limitation Guidelines) of the 2015 MSGP and if benchmark monitoring is or is not required.

If the permit does identify sector-specific requirements for the facility, insert a description of specific controls implemented at the facility to ensure numeric effluent limits are met.

#### Water Quality-Based Effluent Limitations and Water Quality Standards 3.3

Impaired waters monitoring is performed annually at the facility as listed in Section 4.7 of this SWPPP. The pollutants monitored can change yearly based on the requirements of the MSGP. The table in Section 4.7 lists the current year monitoring requirements and standards.

Stormwater from (insert facility name) discharges to (insert canyon name). Insert information on canyon reaches identified as impaired waters, pollutants causing the impairment, and approved or established TMDLs for the canyon. Also, insert specific information relative to the controls measures used to ensure discharges from industrial activities meet the water quality standards.

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

#### SCHEDULES AND PROCEDURES 4.0

Preventative maintenance of control measures used to comply with the Permit effluent limits can avoid situations that result in discharges to the environment. Part 5.2.5 of the 2015 MSGP specifies control measures will have a schedule or frequency for maintenance and procedures specifying how maintenance is conducted. Part 5.5 requires documentation of maintenance and repairs including the date(s) of regular maintenance. See Attachment 10 for the Scheduled Maintenance Log.

#### 4.1 Good Housekeeping

Insert a schedule for housekeeping activities such as waste and recyclable material (scrap metal, wood tires) pickup, street sweeping, etc. and identify any procedures used to ensure this occurs.

#### 4.2 Maintenance

Insert a discussion of and schedule for preventative or regular maintenance of equipment such as oil/water separators, culvert clean outs, other control measures, etc. Note: Industrial equipment will be

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maintained so that leaks and other releases are avoided. All control measures will be maintained in effective operation condition.

#### 4.3 Spill Prevention and Response

Insert a discussion of and schedule for preventing and responding to spills and leaks such as regular maintenance of equipment, placing pans under heavy equipment, and maintaining spill kits. Also, specify cleanup equipment, procedures and spill logs, and identify how often employees are trained in spill response procedures, as appropriate.

#### 4.4 Erosion and Sediment Control

Insert a discussion of and schedule for preventative or regular maintenance of erosion, sediment and velocity control measures. If polymers and/or other chemical treatments are used as erosion or sediment control measures, identify them and include a regular schedule for reapplication. Also, include a schedule for restocking these materials to ensure the facility does not run out.

#### 4.5 Employee Training

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

Per Part 2.1.2.8 of the 2015 MSGP, training relevant to the SWPPP and MSGP is required for all workers at the facility that work in areas where industrial materials or activities are exposed to stormwater (MSGP sites); workers, managers, and supervisors who are responsible for implementing activities necessary to meet the conditions of this permit (e.g., inspectors, maintenance personnel); and all members of the PPT. Training is designed to ensure these personnel understand the MSGP and SWPPP requirements, as well as their specific responsibilities regarding these requirements.

Training provided and assigned to these personnel cover both the specific control measures used at the facility; along with monitoring, inspection, planning, reporting, and documentation requirements described in this SWPPP. Training will be conducted at least annually. The DEP, Deployed Environment Safety and Health (DESH) Group Leader and Pollution Prevention Team members are responsible for ensuring all appropriate personnel receive this training. It is suggested to add a list of job titles per facility that require training (e.g., Mechanics, Heavy Equipment Operators, PPT members, Operations Manager(s), etc.).

Training activities are documented in accordance with LANL's Training Standards. In cases where training is formalized enough to require specific curricula and reoccurrence, the training activity will be recorded in LANL's official U-TRAIN database. Informal briefings, such as those included in-group safety meetings are not typically recorded in U-TRAIN. Sign-in sheets are used to document attendance and will be kept on file in Attachment 11 of this SWPPP.

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



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Insert Facility Name MSGP Stormwater Pollution Prevention Plan Document Reference Number Revision X, Date

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

#### 4.6 Routine Facility Inspections and Quarterly Visual Assessments

Routine inspections at this facility are conducted and documented monthly in accordance with EPC-CP-QP-023, MSGP Routine Facility Inspections (Attachment 16).

Visual assessments are conducted in accordance with EPC-CP-QP-064, *MSGP Stormwater Visual Assessments* (Attachment 18).

#### 4.6.1 Routine Facility Inspections

At least once each calendar year, the routine facility inspection is conducted during a period when a stormwater discharge is occurring. A qualified member of the PPT (typically the DEP, a representative from the EPC-CP Storm Water Permitting/Compliance Team or EPC-CP Program Lead) performs the inspection. The 2015 MSGP consolidates the different and separate documentation requirements in the Comprehensive Site Inspection Procedures and Routine Facility Inspection Procedures from the 2008 MSGP. EPC-CP will perform at least one routine inspection per year in order to evaluate corrective action status for the Annual Report requirements.

Routine inspections will evaluate the following areas, at a minimum:

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

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

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

Inspections performed by the PPT member are documented by completing the routine facility inspection form, which identifies all conditions requiring corrective action and other potential stormwater pollution issues that were encountered. All conditions requiring corrective actions identified during the inspection are addressed in accordance with Section 6.0 *Corrective Actions and Deadlines* of this plan. Facility personnel or the DEP may also perform daily, weekly, or other periodic facility surveys (walk downs)

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between monthly routine inspections to ensure compliance with the SWPPP and MSGP. Completed routine facility inspection forms are provided in Attachment 7 of this SWPPP and meet the requirements listed in the 2015 MSGP (Part 3.1.2.).

#### 4.6.2 Quarterly Visual Assessments

Once each quarter, (April 1-May 31, June 1-July 31, August 1-September 30, October 1-November 30) a stormwater sample is obtained and visual assessment performed at each outfall, if a measureable storm event occurred. A qualified member of the PPT (DEP, EPC-CP field team member or MSGP Program Lead) conducts the visual assessment. The visual assessment will be:

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

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

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

Exceptions to visual assessments:

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

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

The PPT member performing the visual assessment documents potential stormwater pollution problems that were observed during the assessment on the quarterly visual assessment form. Any required corrective actions identified during the assessment are addressed in accordance with Section 6.0 *Corrective Actions and Deadlines* of this plan. Completed quarterly visual assessments are provided in Attachment 8 of this SWPPP and meet the requirements listed in the 2015 MSGP (Part 3.2.2).

#### 4.7 Monitoring

Analytical monitoring comprised of Impaired Waters [Insert Effluent Limitation Guideline monitoring for industrial activity identified in Tables 1-1 and 6-1 of the 2015 MSGP (for example the Asphalt Batch Plant)] monitoring is performed annually on stormwater discharges from the site. Benchmark constituents are monitored quarterly. Monitoring occurs when storm events result in an actual discharge from the site and follow the preceding measurable storm event by at least 72 hours (3 days), unless documented that the storm event is representative of local storm events during the sampling

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period. For runoff from snowmelt, the monitoring is performed at a time when a measurable discharge from the site occurs.

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

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

Monitoring occurs at automated sampling station [insert automated sampler identifier (e.g., MSGP07501)] as identified in Section 1.5. Discharge from the facility is (insert cardinal direction) to (insert canyon name) (impaired waters), which is a tributary of the Rio Grande located approximately X miles east of the facility.

Outfall (insert substantially identical outfall identification number) is "substantially identical" to Outfall (insert monitored outfall identification number) based on (insert the following information: industrial activities conducted in the drainage area, description of control measures implemented in the drainage area of each outfall, description of exposed material located in the drainage area of each outfall that are likely to be significant contributors of pollutants to stormwater discharges, and an estimate of the runoff coefficient of the drainage areas). Outfall locations are shown on the site map provided in Figure B-1. Note: Delete this paragraph if the facility has no substantially identical outfalls. If the facility has multiple maps, reference them all.

Monitoring will continue annually for constituents associated with impaired waters until a constituent is no longer detected in stormwater samples.

If the impaired water or benchmark constituent value exceeds the New Mexico Water Quality criterion (insert or ELG value is exceeded, if applicable), the Pollution Prevention Team will:

- Review the selection, design, installation, and implementation of control measures to determine
  if modifications are necessary to meet the effluent limits;
- Implement the necessary modifications within the timeframe specified for corrective action; and
- Continue benchmark or annual monitoring of the constituent (as required by Part 6.2 of the 2015 MSGP);
- If an ELG is exceeded, follow-up monitoring within 30 calendar days (or during the next qualifying runoff event) of implementing corrective action(s) is required. When follow-up monitoring exceeds the applicable effluent limitation, an exceedance report is submitted to EPA and monitoring continues at least quarterly, until the discharge complies with the effluent limit.

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

- · The date, exact place, and time of sampling or measurements;
- The date and duration (in hours) of the rainfall event
- Rainfall total (in inches) for that rainfall event

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Insert Facility Name MSGP Stormwater Pollution Prevention Plan Document Reference Number Revision X, Date

- The individual(s) who performed the sampling or measurements;
- The date(s) analyses were performed
- The individual(s) who performed the analyses;
- The analytical techniques or methods used; and
- The results of such analyses.

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

Insert information on quarterly benchmark and annual Impaired Waters or Effluent Limitation Guideline monitoring required for facility and benchmark pollutants to be sampled.

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

- EPC-CP-QP-047, Inspecting Stormwater Runoff Samplers and Retrieving Samples for the MSGP (Attachment 19)
- EPC-CP-QP-2106, Processing MSGP Stormwater Samples (Attachment 20).

The table on the following page lists the current Summary of Monitoring Requirements. The monitoring values have been modified to reflect New Mexico water quality standards and are based on the most protective water quality standards from the Standards for Interstate and Intrastate Surface Waters (effective on February 28, 2018), 20.6.4.900 NMAC; and as set forth in Part 9.6.2.1 of the 2015 MSGP.

ert Facility Nan MSGP Stormwater Pollution Prevention Plan **Document Reference Nur** Revision X, Date

**Summary of Monitoring Requirements** Outfalls: (insert outfall numbers)

Contact MSGP Program Lead to obtain this information formatted for insertion.

EAMPLE

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#### 5.0 DOCUMENTATION FOR ELIGIBILITY CONSIDERATIONS UNDER OTHER FEDERAL LAWS

#### 5.1 Endangered Species

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

Part 5.2.2 of the 2015 MSGP requires areas of designated critical habitat for endangered or threatened species, as applicable, be included in the SWPPP. The *Threatened and Endangered Species Habitat Management Plan for Los Alamos National Laboratory* (LA-UR-17-29454) was last updated in October 2017 (see Attachment 13). This document provides a management strategy for the protection of threatened and endangered species and their habitats on LANL property. The MSGP IPaC Trust Resource Report (see Attachment 14) is also attached for informational purposes.

#### 5.2 Historic Properties

In August, 2015 and December 2008, the Cultural Resources Team (using GPS spatial data as well as conducting visual inspections), reviewed the Laboratory industrial sites (see list below) and their associated outfalls and monitoring stations subject to the 2015 Multi-Sector General Permit (Permit #NMR050000) for effects on historic properties. All of these sites were found to be undertakings of no effect and in compliance with Section 106 of the National Historic Preservation Act (i.e., Criterion B).

- TA-3-22 Power and Steam Plant
- TA-3-38 Metals Fabrication Shop
- TA-3-38 Wood Shop
- TA-3-39 and 102 Metal Shop
- TA-3-66 Sigma Complex
- TA-60 Asphalt Batch Plant
- TA-60-1 Heavy Equipment Yard
- TA-60 Material Recycle Facility
- TA-60 Roads and Grounds
- TA-60-2 Warehouse
- TA-54 RANT

#### 6.0 CORRECTIVE ACTIONS AND DEADLINES

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

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Insert Facility Name MSGP Stormwater Pollution Prevention Plan Document Reference Number Revision X, Date

revised (as appropriate). The purpose is to ensure effluent limits of the 2015 MSGP permit are met and pollutant discharges are minimized:

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

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

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

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

#### 6.1 Immediate Actions

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

#### 6.2 Subsequent Actions

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

#### 6.3 Corrective Action Documentation

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Upon discovery, conditions requiring corrective action are documented by the DEP or EPC-CP on a Routine Facility Inspection Form and/or entered into the CAR database. The action will be kept open in the database until the issue has been resolved. Documentation of maintenance and repairs of stormwater control measures (BMPs) will be kept in Attachment 10 of this SWPPP. Where corrective actions result in changes to procedures or controls documented in this SWPPP, modifications to the SWPPP are made accordingly within 14 calendar days of completing the corrective action(s). LANL procedure EPC-CP-QP-022, *MSGP Corrective Actions* can be found in Attachment 17.

#### 7.0 ACRONYMS

BMP	Best Management Practice
CAR	Corrective Action Report
DEP	Deployed Environmental Professional
DESH	Deployed Environmental Safety and Health
DOE	Department of Energy
EIS	Environmental Impact Statement
ELG	Effluent Limitation Guidelines
EMD-ER	Emergency Management Division-Emergency Response
EPA	Environmental Protection Agency
EPC-CP	Environmental Protection and Compliance – Compliance Programs
FOD	Facility Operations Division
IPaC	Information for Planning and Consultation
LANL or the Laboratory	Los Alamos National Laboratory
MSGP or Permit	Multi-Sector General Permit
NOI	Notice of Intent
NPDES	National Pollutant Discharge Elimination System
PPT	Pollution Prevention Team
SWPPP	Stormwater Pollution Prevention Plan
URL	Uniform Resource Locator

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Insert Facility Name MSGP Stormwater Pollution Prevention Plan Document Reference Number Revision X, Date

8.0 SWPPP CERTIFICATION

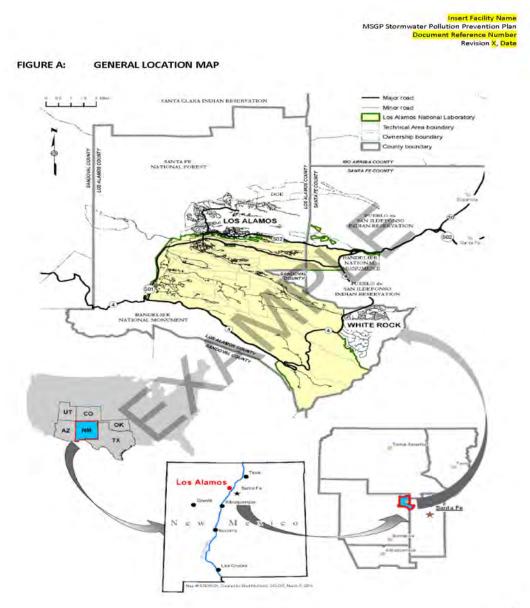
STORMWATER POLLUTION PREVENTION PLAN (Insert Facility Name) Los Alamos National Laboratory

#### CERTIFICATION STATEMENT

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

Signature\_\_\_\_\_ (Insert Printed Name) (Insert Title) Date

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Insert Facility Name MSGP Stormwater Pollution Prevention Plan Document Reference Number Revision X, Date

FIGURE B: MAP(S)

Label the figures as Figure B-1, Figure B-2, etc.

Insert maps in the following order:

- Facility specific site map(s),
- Receiving waters maps, and
- Threatened Endangered Species Map.

EXAMPLE

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. Note: There may be several "Change NOIs" submitted to EPA within a permit term. Contact the MSGP Program Lead to ensure all are included in this attachment.

EXAMPLE

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	nsert text	documenting all d	changes or updates made to the SV	VPPP. Text may be in table format as
ATTACHMENT 2: SWPPP AMENDMENTS	аттасни	IENT 2: SWF	PPP AMENDMENTS	

EAMPLE

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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.

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Insert Facility Name MSGP Stormwater Pollution Prevention Plan Document Reference Number Revision X, Date

**ATTACHMENT 4: DULY AUTHORIZED SIGNATORY MEMORANDUM** 

Insert the appropriate attachment.

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Insert Facility Name MSGP Stormwater Pollution Prevention Plan Document Reference Number Revision X, Date

ATTACHMENT 5: DISCHARGE MONITORING REPORTS

Insert the discharge monitoring reports.

EAMPLE

Insert Facility Name MSGP Stormwater Pollution Prevention Plan Document Reference Number Revision X, Date

ATTACHMENT 6:

ANNUAL REPORTS

Insert the annual reports. The MSGP Program Lead provides these.

ET AN

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.

EtAMPLE

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. EPC-CP provides these by memorandum as they are produced.

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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.

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Insert Facility Name MSGP Stormwater Pollution Prevention Plan Document Reference Number Revision X, Date

ATTACHMENT 10:

SCHEDULED MAINTENANCE LOG

### SCHEDULED MAINTENANCE LOG

Control Measure or Equipment Description (include location where appropriate)	Action Taken/Comments	Action Taken By (printed name & Z no.)
11		
	1,	
	VO.	
	11-	
	CL.	
1	Y.	
61		
	Equipment Description	Equipment Description

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Insert Facility Name MSGP Stormwater Pollution Prevention Plan Document Reference Numbar Revision X, Date

ATTACHMENT 11: TRAINING DOCUMENTATION

Insert the appropriate documentation.

ETAMPIC

Insert Facility Name MSGP Stormwater Pollution Prevention Plan Document Reference Number Revision X, Date

ATTACHMENT 12: MSGP (OR ACTIVE URL)

Either insert a copy of the most current Permit, or insert the URL address (see example below).

A copy of the 2015 MSGP is kept on file with the SWPPP in hard copy.

The active URL for the permit is https://www.epa.gov/npdes/final-2015-msgp-documents

EXAMPLE

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	Insert Facility Name MSGP Stormwater Pollution Prevention Plan
	Document Reference Number Revision X, Date
ATTACHMENT 13:	THREATENED AND ENDANGERED SPECIES HABITAT MANAGEMENT PLAN FOR

St.

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Insert Facility Name MSGP Stormwater Pollution Prevention Plan Document Reference Number Revision X, Date

MSGP IPAC TRUST RESOURCES REPORT ATTACHMENT 14:

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.

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 appropriate plan into this SWPPP. Ensure the most current revision of this plan is inserted.

CAMPLE

 Insert Facility Name

 MSGP Stormwater Pollution Prevention Plan

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 ATTACHMENT 16:
 EPC-CP-QP-023, MSGP ROUTINE FACILITY INSPECTIONS

 Insert the appropriate procedure or parts of the procedure that pertain to this SWPPP. Ensure the most current revision of this procedure is inserted.

ETAMPLE

#### Attachment 1: EPC-CP-QP-2110 R0 Form 1, MSGP SWPPP Template Example (cont.) (Page 42 of 50)

Insert Facility Name MSGP Stormwater Pollution Prevention Plan Document Reference Number Revision <mark>X, Date</mark>

ATTACHMENT 17:

EPC-CP-QP-022, MSGP CORRECTIVE ACTIONS

Insert the appropriate procedure or parts of the procedure that pertain to this SWPPP. Ensure the most current revision of this procedure is inserted.

EXAMPLE

#### Attachment 1: EPC-CP-QP-2110 R0 Form 1, MSGP SWPPP Template Example (cont.) (Page 43 of 50)

Insert Facility Name MSGP Stormwater Pollution Prevention Plan Document Reference Number Revision X, Date ATTACHMENT 18: EPC-CP-QP-064, MSGP STORMWATER VISUAL ASSESSMENTS

Insert the appropriate procedure or parts of the procedure that pertain to this SWPPP. Ensure the most current revision of this procedure is inserted.

EXAMPLE

# Attachment 1: EPC-CP-QP-2110 R0 Form 1, MSGP SWPPP Template Example (cont.)

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Insert Facility Name MSGP Stormwater Pollution Prevention Plan Document Reference Number Revision X, Date

ATTACHMENT 19: EPC-CP-QP-047, INSPECTING STORMWATER RUNOFF SAMPLERS AND RETRIEVING SAMPLES FOR THE MSGP

Insert the appropriate procedure or parts of the procedure that pertain to this SWPPP. Ensure the most current revision of this procedure is inserted.

#### Attachment 1: EPC-CP-QP-2110 R0 Form 1, MSGP SWPPP Template Example (cont.) (Page 45 of 50)

Insert Facility Name MSGP Stormwater Pollution Prevention Plan Document Reference Number Revision X, Date

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

Insert the appropriate procedure or parts of the procedure that pertain to this SWPPP. Ensure the most current revision of this procedure is inserted.

EAMPLE

#### Attachment 1: EPC-CP-QP-2110 R0 Form 1, MSGP SWPPP Template Example (cont.) (Page 46 of 50)

Insert Facility Name MSGP Stormwater Pollution Prevention Plan Document Reference Number Revision X, Date

ATTACHMENT 21: EPC-DO-QP-101, ENVIRONMENTAL REPORTING REQUIREMENTS FOR RELEASES OR EVENTS

Insert the appropriate procedure or parts of the procedure that pertain to this SWPPP. Ensure the most current revision of this procedure is inserted.

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#### Attachment 1: EPC-CP-QP-2110 R0 Form 1, MSGP SWPPP Template Example (cont.) (Page 47 of 50)

Insert Facility Name MSGP Stormwater Pollution Prevention Plan Document Reference Number Revision X, Date

ATTACHMENT 22: EPC-CP-QP-007, SPILL INVESTIGATIONS

Insert the appropriate procedure or parts of the procedure that pertain to this SWPPP. Ensure the most current revision of this procedure is inserted.

EXAMPLE

#### Attachment 1: EPC-CP-QP-2110 R0 Form 1, MSGP SWPPP Template Example (cont.) (Page 48 of 50)

Insert Facility Name MSGP Stormwater Pollution Prevention Plan Document Reference Number Revision X, Date EPC-CP-QP-2110, MSGP STORMWATER POLLUTION PREVENTION PLAN

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

Insert the appropriate procedure or parts of the procedure that pertain to this SWPPP. Ensure the most current revision of this procedure is inserted.

EXAMPLE

#### Attachment 1: EPC-CP-QP-2110 R0 Form 1, MSGP SWPPP Template Example (cont.) (Page 49 of 50)

Insert Facility Name MSGP Stormwater Pollution Prevention Plan Document Reference Number Revision X, Date

ATTACHMENT 24:

24: LOCAL PROCEDURE

Insert the appropriate procedure or parts of the procedure that pertain to this SWPPP. If this section is used, ensure the most current revision of the attached procedure is inserted. Delete section if not needed.

EXAMPLE

#### Attachment 1: EPC-CP-QP-2110 R0 Form 1, MSGP SWPPP Template Example (cont.) (Page 50 of 50)

Insert Facility Name MSGP Stormwater Pollution Prevention Plan Document Reference Number Revision X, Date ATTACHMENT 25: LOCAL PROCEDURE Insert the appropriate procedure or parts of the procedure that pertain to this SWPPP. If this section is used, ensure the most current revision of the attached procedure is inserted. Delete section if not S EXAMP

needed.

MSGP Stormwater Pollution Prevention Plan Preparation and	No: EPC-CP-QP-2110	Page 62 of 72
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REQUIREMENT	YES/NO NOTES
Stormwater Pollution Prevention Team	
Is the SWPPP being developed or updated by a qualified person?	
Does the SWPPP list Stormwater Pollution Prevention Team members (by name or title) and each individual's responsibilities?	
Is a copy of the SWPPP immediately available at the site and on-line?	
Contents of the SWPPP	
If the SWPPP refers to procedures or other documents, are copies of the relevant portions of these procedures or documents present in the SWPPP?	
Site Description	
Does the SWPPP include the following information?	
<ul> <li>Identify a description of the nature of the industrial activities at the site</li> </ul>	
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:	
Deviluanes of the property and size of the property in actes	
Direction(s) of stormwater flow (using arrows)	
Locations of all stormwater control measures	
<ul> <li>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)</li> </ul>	
<ul> <li>Locations of all stormwater conveyances including ditches, pipes, and swales</li> </ul>	
Locations of potential pollutant sources associated with each industrial activity (see Part 5.2.3.2) that could be exposed to rainfall or snowmelt and could be discharged from the site.	
<ul> <li>Locations where significant spills or leaks have occurred (see Part 5.2.3.3)</li> </ul>	
<ul> <li>Location(s) of all stormwater monitoring points</li> </ul>	
<ul> <li>Location of each stormwater inlet and outfall, with a unique identification code for each outfall (i.e., 001, 002, 003, etc.), indicating if you are treating one or more outfalls as "substantially identical" (see Parts 3.2.3, 5.2.5.3, and 6.1.1)</li> </ul>	
<ul> <li>If applicable, location of the MS4 and where your stormwater discharges to it.</li> <li>NOTE: Although LANL does not currently have an MS4, EPA has published a draft permit.</li> </ul>	
<ul> <li>Areas of designated critical habitat for endangered or threatened species</li> </ul>	
<ul> <li>Locations of the following activities where such activities are exposed to precipitation:</li> </ul>	

MSGP SWPPP Review Guidance Checklist

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REQUIREMENT	YES/NO	NOTES
<ul> <li>Fueling station(s)</li> </ul>		
<ul> <li>Vehicle and equipment maintenance and/or cleaning area</li> </ul>		
<ul> <li>Loading/unloading areas</li> </ul>		
<ul> <li>Locations used for the treatment, storage, or disposal of wastes</li> </ul>		
<ul> <li>Liquid storage tanks</li> </ul>		
<ul> <li>Processing and storage areas</li> </ul>		
<ul> <li>Immediate access roads used by carriers of raw materials, manufactured products, waste</li> </ul>		
material, or by-products used or created by the site		
- Transfer areas for substances in bulk		
- Machinery	-	
<ul> <li>Locations and sources of run-on to the site from adjacent property that contains significant</li> </ul>		
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. <i>Moterial handling activities</i> 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 discover and that have been exposed to chorowater in the three years mint to the date the SWPPD is		
prepared or amended.	Ì	
Are areas where <b>potential</b> spills and leaks could occur that could contribute pollutants to stormwater discharges and the corresponding outfall(s) that would be affected by such spills and leaks identified in the SWPPP?		
Are all significant spills and leaks of oil or toxic or hazardous substances identified that actually occurred at exposed areas, or that drained to a stormwater conveyance, in the three years prior to the date the SWPPP was prepared or amended?		
Has an evaluation for the presence of unauthorized non-stormwater discharges (see Part 1.1.3) been done and does it include the following information?		
Date of the evaluation		
<ul> <li>A description of the evaluation criteria used</li> </ul>		

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# Attachment 2: MSGP SWPPP Review Guidance Checklist Example (cont.)

(Page 3 of 11)

	YES/NO NOTES
<ul> <li>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</li> </ul>	
application was submitted for an unauthorized cooling water discharge.	
Is there documentation of the location of any salt storage piles used for deicing or other commercial or industrial purposes?	
Is all stormwater discharge sampling data collected at the site during the precious permit term	
summarized in a narrative description? This may include data tables and figures.	
Control Measures to Meet Effluent Limits	
Does the SWPPP indicate whether the following control measure selection and design criteria were considered?	
<ul> <li>Preventing stormwater from coming into contact with polluting materials is generally more effective, and less costly, than trying to remove pollutants from stormwater</li> </ul>	
Using control measures in combination which may be more effective than using control measures in isolation for minimizing pollutants in stormwater discharge	
<ul> <li>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</li> </ul>	
<ul> <li>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</li> </ul>	
Improve ground water recharge and stream base flows in local streams, although care must be taken to avoid ground water contamination	
<ul> <li>Attenuating flow using open vegetated swales and natural depressions can reduce in-stream impacts of erosive flows</li> </ul>	Ē
<ul> <li>Conserving and/or restoring riparian buffers will help protect streams from stormwater runoff and</li> </ul>	
<ul> <li>Using treatment interceptors (e.g., swirl separators and sand filters) may be appropriate in some</li> </ul>	
instances to minimize the discharge of pollutants.	
Does the SWPPP indicate how the control measure addresses the potential pollutant sources?	
Are the selection and design considerations for control measures to meet the following non-numeric technology-based effluent limits (see Part 2.1.2) identified in the SWPPP?	
<ul> <li>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 nollutant discharges he either locating these industrial materials and artivities</li> </ul>	
itistide of protecting uteriting and its start covertings.	
<ul> <li>Use grading, berming or curbing to prevent runoff of contaminated flows and divert run-on away from these areas;</li> </ul>	

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# Attachment 2: MSGP SWPPP Review Guidance Checklist Example (cont.)

Revision: 0

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<ul> <li>Clean up spills and leaks promptly using dry methods (e.g., absorbents) to prevent the discharge</li> </ul>	<ul> <li>Clean up spills and leaks promptly using dry methods (e.g., absorbents) to prevent the discharge</li> <li>A Facility are:</li> </ul>	of pollitantes
<ul> <li>Locate materials, equipment and activities so that potential leaks and spills are contained or able</li> </ul>	to be contained or diverted before discharge;	<ul> <li>Clean up spills and leaks promptly using dry methods (e.g., absorbents) to prevent the discharge</li> </ul>
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<ul> <li>be contained or diverted before discharge:</li> <li>Clean up spills and leaks promptly using dry methods (e.g., absorbents) to prevent the discharge of pollutants;</li> <li>Store leaky vehicles and equipment: indoors or, if stored outdoors, use drip pans and absorbents;</li> <li>Der an all vehicles 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</li> <li>Drain fluids from equipment and vehicles that will be decommissioned, and, for any equipment and vehicles that will be decommissioned, and, for any equipment and vehicles that will be decommissioned, and, for any equipment and vehicles that will be decommissioned, and, for any equipment and vehicles that will be decommissioned, and, for any equipment and vehicles that will be decommissioned, and, for any equipment and vehicles that will be decommissioned, and, for any equipment and vehicles that will be decommissioned, and, for any equipment and vehicles that will be decommissioned, and, for any equipment and vehicles that will be decommissioned, and, for any equipment and vehicles that will be decommissioned, and, for any equipment and vehicles that will be decommissioned, and, for any equipment and vehicles that will be decommissioned, and, for any equipment and vehicles that down water.</li> <li>Good housekeeping (all areas where potential pollutants are exposed to stormwater must be kept clean).</li> <li>Store materials in appropriate containers.</li> <li>Store materials in appropriate containers.</li> <li>Store materials down water.</li> <li>Store materials down water.</li> <li>Store materials down water, garbage, and floatable debris to be discharged or ral of boxes.</li> <li>Maintenance (All industrial equipment, systems and control lenga, secondary containment). Part 1.1.3 of the period of such materials.</li> <li>Maintenance (All industrial equipment, systems and control measures must be main</li></ul>	<ul> <li>Clean up spills and leaks promptly using dry methods (e.g., absorbents) to prevent the discharge of pollutants;</li> <li>Store leaky vehicles and equipment indoors or, if stored outdoors, use drip pans and absorbents;</li> <li>Be spill overflow protection equipment cleaning operations indoors, under cover, or in bermed areas that prevent runoff and run-on and also that capture any overspray; and</li> <li>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 leasy.</li> <li>Good housekeeping (all areas where potential pollutants are exposed to stormwater must be kept clean).</li> <li>Store materials in appropriate containers.</li> <li>You may include active information. or you may usif cut-and-pasie the effuent limits with a not have its and could bark, ensure that discharges from dympsters or roll off boxes. It all to base.</li> <li>"You may include active information.</li> <li>Minimize the potential for waste, garbage, and floatable debris to be discharged by keeping efficient experiment, potential in equipment, systems and control measures must be maintained in effective operating condition in order to minimize pollutant discharges).</li> </ul>	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 indoors 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 be decommissioned, and, for any equipment and vehicles that will remain unused for extended periods of time, inspect at least monthly for leak.       -         • 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 properity dispose of the wash down water.       -         • Spoed metrials in appropriate containers:       -       -         • Social could leak, ensure that discharges have a control (e.g., secondary containment). Part 11.13       -         • for any neulade extra information.       -       -         • You may include extra information.       -       -         • You may include extra information.       -       -         • the permit does not authorize dry waste, garbage, and floatable debris to be discharged by keeping exposed areas free of such materials.       -         • Maintenance (All industrial equipinent, systems and control measurues must be m
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to be contained or diverted before discharge;		<ul> <li>Clean up spills and leaks promptly using dry methods (e.g., absorbents) to prevent the discharge</li> </ul>

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•		
Maintenance	Revision: 0	Effective Date:

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REQUIREMENT	YES/NO NOTES
reasonable steps (see Part 4.3.1 for definition) to prevent or minimize the discharge of pollutants until the final repair or replacement is implemented, including cleaning up any contaminated surfaces so that the material will not be discharged during subsequent storm events. Final repairs/replacement of stormwater controls should be completed as soon as feasible but must be no later than the timeframes established in Part 4.3 for corrective actions, i.e., within 14 days or, if that is infeasible, within 45 days.	itants until faces so acement of aasible,
Is there language in the SWPPP indicating corrective action must be taken (in accordance with Part 4.0) if a control measure was never installed, was installed incorrectly or not in accordance with Parts 2 and/or 8, or isn't being properly operated or maintained?	cordance with Part 4.0) dance with Parts 2
<ul> <li>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.</li> </ul>	se must be minimized ney occur in order to
<ul> <li>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:*</li> </ul>	esticides") that could litate rapid response if
<ul> <li>Implement procedures for material storage and handling including use of secondary containment and barriers between material storage and traffic areas.</li> </ul>	econdary containment
<ul> <li>Develop training on the procedures for expeditiously stopping, containing, and cleaning up leaks, spills, and other releases as soon as possible.</li> </ul>	and cleaning up leaks,
<ul> <li>Keep spill kits on-site, located near areas where spills may occur or where a rapid response can be made</li> </ul>	rapid response can be
<ul> <li>Notify appropriate facility personnel when a leak, spill, or other release occurs. Where a leak, spill or other release containing a hazardous substance or oil in an amount equal to or in excess of a reportable quantity established under either 40 CFR Part 110, 40 CFR Part 117, or 40 CFR part 302, occurs during a 24-hour period, you must notify the National Response Center (NRC) at (800) 424- 8802 in accordance with the above referenced requirements as soon as you have knowledge of the discharge.</li> </ul>	urs. Where a leak, spill il to or in excess of a 17, or 40 CFR part 302, ter (NRC) at (800) 424- u have knowledge of
<ul> <li>In the event of a spill, does the SWPPP indicate where the contact information is so that it is readily accessible and available?</li> </ul>	ion is so that it is
<ul> <li>Erosion and Sediment Controls</li> </ul>	
<ul> <li>Does the SWPPP identify how exposed soils will be stabilized to minimize pollutant discharges?</li> <li>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?</li> </ul>	ollutant discharges? ge locations to hity of discharge
- Does the SWPPP identify structural and non-structural control measure to minimize the discharge of sediment?	minimize the discharge

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	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 analysis identified as requiring training?
	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
	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?
	Does the SWPPP contain a schedule or convention used for determining when pickup or disposal of waste materials occurs?
	Are the benchmark values (i.e., the Lowest New Mexico Water Quality Standard) listed in MSGP Section 9.6.2.1 identified in the SWPPP? Schedules and Procedures - Control Measures
	Control Measures to Meet Water Quality Based Effluent Limits (see Part 7.2 and Part 9.6.2)
	Are effluent limitations identified for the Sector D facility (Asphalt Paving) (see Part 8.D.4)? Are offlight limitations identified for the Sector A facility (Timber Boduste) (see Part 8.A.4)?
(6	Control Measures to Meet Numeric Effluent Limitations Guidelines-Based Limits (see Part 2.1.3 and Part 8)
	<ul> <li>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?)</li> </ul>
	<ul> <li>Non-Stormwater Discharges - Does the SWPPP indicate that personnel will evaluate the site for non-stormwater discharges not explicitly authorized in Part 1.1.3 or covered by another NPDES permit and eliminate the discharge?)</li> </ul>
	<ul> <li>Are controls in place to minimize exposure to stormwater resulting from adding to or removing materials from the salt pile?</li> </ul>
	<ul> <li>Salt Storage Piles or Piles Containing Salt - Does the SW/PPP identify how salt piles are enclosed or covered?</li> </ul>
	<ul> <li>Management of Runoff - Does the SWPPP identify how stormwater runoff is diverted, infiltrated, reused, contained, or otherwise reduced to minimize pollutants in the discharge?</li> </ul>
	<ul> <li>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?</li> </ul>
TES/NO NOIES	nequinely i

# MSGP SWPPP Review Guidance Checklist

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# Attachment 2: MSGP SWPPP Review Guidance Checklist Example (cont.)

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	Are parameters for sampling and the frequency of sampling for each parameter listed?
	Are locations where samples are collected, including any determination that two or more outfalls are substantially identical, in the SWPPPP?
	Does the SWPPP contain documentation of procedures used to conduct benchmark, effluent limitations guidelines and impaired waters monitoring?
	Schedules and Procedures - Monitoring
	or activities exposed to precipitation at the site and the NOI must be modified and re-certified.
	information in the SWPPP that supports this claim as required by Parts 3.1.1, 3.2.3, 6.2.1.3 and 6.2.4.2. That is, the SWPPP must contain a signed certification indicating that there are no industrial materials
	We specific terms to be covered by the inspection, including schedules for specific outlans then the switch outlants to the strength of the st
	Irregular stormwater runoff discharges (see Part 3,2,3)?
	Does the SWPPP contain an alternative schedule for conducting visual assessments in climates with
	For each type of inspection performed (i.e., routine inspection and visual assessments) does the SWPPP identify the person (s) or positions of person(s) responsible for the inspection?
	Is the procedure identified for conducting visual assessments?
	Is the procedure identified for conducting routine facility inspections?
	Schedules and Procedures - Inspections and Assessments
-	Are records of completed training kept in the SWPPP?
	Frequency/schedule of training
	Content of the training
	Are the following elements of the training plan documented in the SWPPP?
	<ul> <li>When and how to conduct inspections, record applicable findings, and take corrective actions</li> </ul>
	<ul> <li>The proper procedures to follow with respect to the permit's pollution prevention requirements</li> </ul>
	The location of all controls on the site required by this permit and how they are to be maintained
	management practices
	<ul> <li>Spill response procedures, good housekeeping, maintenance requirements, and material</li> </ul>
	<ul> <li>An overview of what is in the SWPPP</li> </ul>
	Are the following identified as elements of required training?
	<ul> <li>Personnel who are responsible for taking and documenting corrective actions.</li> </ul>
	<ul> <li>Personnel who are responsible for conducting and documenting monitoring and inspections</li> </ul>
	contaminants in stormwater discharges
	<ul> <li>Personnel responsible for the storage and handling of chemicals and materials that could become</li> </ul>
	<ul> <li>Personnel who are responsible for the design, installation, maintenance and/or repair of controls (including pollution prevention measures)</li> </ul>
YES/NO NOTES	REQUIREMENT YES/NO

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# Attachment 2: MSGP SWPPP Review Guidance Checklist Example (cont.)

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	<ul> <li>All inspection reports, including the Routine Facility Inspection Reports (see Part 3.1.2) and Quarterly Visual Assessment Reports (see Part 3.2.2).</li> </ul>
	<ul> <li>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).</li> </ul>
	<ul> <li>Copy of the MSGP Permit (an electronic copy easily available to SWPPP personnel is also acceptable).</li> </ul>
	Copy of the acknowledgement you receive from the EPA assigning your NPDES ID.
	Copy of NOI submitted to EPA along with any correspondence exchanged between the facility and EPA specific to coverage under this permit.
	Does the SWPPP contain the following up-to-date and complete inspection, monitoring, and certification records?
- 0	Documentation
	Corrective Action Documentation - If an event triggering corrective action is associated with an SIO, did the review of the need for action encompass all related substantially identical outfalls?
	Is there language indicating quarterly visual assessment of the discharge at one SIO will also apply to the other SIOs?
	Is there language indicating quarterly visual assessments of substantially identical outfails will be performed on a rotating basis throughout the permit term?
	Do Substantially Identical Outfalls identified on the SWPPP map match those identified in MDMRs?
	<ul> <li>Justification as to why the outfalls are expected to discharge substantially identical effluents</li> </ul>
	<ul> <li>An estimate of the runoff coefficient of the drainage areas (low = under 40%, medium = 40% to 65%, high = above 65%</li> </ul>
	significant contributors of pollutants to stormwater discharges
	<ul> <li>Description of the control measures implemented in the drainage area of each outfall</li> <li>Description of the evonced material located in the drainage area of each outfall that are likely to be</li> </ul>
	Description of the general industrial activities conducted in the drainage area of each outfall
	Location of each of the substantially identical outfalls
	Does the SWPPP contain the following relative to SIOs?
	Schedules and Procedures - Substantially Identical Outfalls (SIOs)
	Does the SWPPP list procedures for gathering storm event data (see Part 6.1)?
	Are numeric control values (benchmark, effluent limitations guidelines, water quality standards) applicable to discharges from each outfall identified?
	Does the SWPPP contain schedules for monitoring at the facility, including a schedule for alternate monitoring periods for climates with irregular stormwater runoff (see Part 6.1.6)?
YES/NO NOTES	REQUIREMENT YES

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# Attachment 2: MSGP SWPPP Review Guidance Checklist Example (cont.)

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REQUIREMENT YES/NO NOTES	NOTES
<ul> <li>Description of any deviations from the schedule for visual assessments and/or monitoring, and the reason for the deviations (e.g., adverse weather or it was impracticable to collect samples within the first 30 minutes of a measurable storm event) (see Parts 3.2.3 and 6.1.5)</li> </ul>	
Corrective action documentation (see Part 4.4)	
<ul> <li>Documentation of any benchmark exceedances and the type of response to the exceedance employed including the following:</li> </ul>	
The corrective action taken;	
<ul> <li>A finding that the exceedance was due to natural background pollutant levels;</li> </ul>	
<ul> <li>A determination from EPA that benchmark monitoring can be discontinued because the</li> </ul>	
exceedance was due to run-on; OR	
<ul> <li>A finding that no further pollutant reductions were technologically available and economically practicable and achievable in light of best industry practice consistent with Part 6.2.1.2</li> </ul>	
<ul> <li>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 nollutants were not detected in your discharge or were solely attributable to natural background</li> </ul>	
sources. (see Part 6.2.4.1)	
<ul> <li>Documentation supporting that stormwater discharges, allowable non-stormwater discharges, and stormwater discharge-related activities are not likely to adversely affect any species that are</li> </ul>	
that is designated as "critical habitat" under the Endangered Species Act (see Part 1.1.4.5).	
<ul> <li>Documentation supporting the determination that stormwater discharges, allowable non- stormwater discharges, and stormwater discharge-related activities meet one of the eligibility</li> </ul>	
All Discharge Monitoring Reports and Annual Reports	
<ul> <li>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, guarterly visual assessments.</li> </ul>	
benchmark monitoring, and/or impaired waters monitoring.	
Is the SWPPP signed and dated by a duly authorized representative (per Part B.11)?	
Is the Annual Report signed by a duly authorized representative (per Part B.11)?	
SWPPP Modifications	
Where a corrective action triggers a change in any of the control measures or procedures, has the SWPPP been updated within 14 calendar days of completing the corrective action (see Part 4.4)?	
Are SWPPP modifications signed and dated by a duly authorized representative?	
Has the SWPPP been reviewed and does documentation exist as to the modifications made or why	

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MSGP SWPPP Review Guidance Checklist

# Attachment 2: MSGP SWPPP Review Guidance Checklist Example (cont.)

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An unauthorized release on discharge (a g shill leav or discharge of non-stormuster not suthorized ( VES/NO NOTES
<ul> <li>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.</li> </ul>
<ul> <li>A discharge violates a numeric effluent limit listed in Table 2-1 and in the sector specific requirements</li> </ul>
<ul> <li>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.</li> </ul>
<ul> <li>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.</li> </ul>
<ul> <li>Whenever a visual assessment shows evidence of stormwater pollution (e.g., color, odor, floating solids, settled solids, suspended solids, foam).</li> </ul>
<ul> <li>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.</li> </ul>
<ul> <li>The average of four quarterly sampling results exceeds an applicable benchmark (see Part 6.2.1.2). If less than four benchmark samples have been taken, but the results are such that an exceedance of</li> </ul>
the four quarter average is mathematically certain (i.e., the sum of quarterly sample results to date is more than four times the benchmark level) this is considered a benchmark exceedance.
Public Accessibility of SWPPP
Is your SWPPP uploaded to the URL provided in the NOI?
Are subsequent SWPPP modifications (updates), records and all other reporting elements required for the previous year updated no later than 45 days after conducting the final routine facility inspection for the year?
If you did not upload your SWPPPs to a URL, was the following information provided in the NOI and documented in the SWPPP?
<ul> <li>Onsite industrial activities exposed to stormwater, including potential spill and leak areas (see Parts 5,2.3.1, 5,2.3.3 and 5.2.3.5);</li> </ul>
<ul> <li>Pollutants or pollutant constituents associated with each industrial activity exposed to stormwater that could be discharged in stormwater and/or any authorized non-stormwater discharges listed in Part 1.1.3 (see Part 5.2.3.2)</li> </ul>
<ul> <li>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</li> </ul>
requirements in Part 2.2.2 and Part 0, and any other measures taken to compty with the requirements in Part 2.2, Water Quality Based Effluent Limitations. If polymers and/or other chemical treatments are used as controls, these must be identified and the purpose explained.
<ul> <li>The schedule for good housekeeping, maintenance, and schedule for all inspections required in Part</li> </ul>

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